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L26	26	SEA FILE=CAPLUS ABB=ON	PLU=ON	L1 AND HERBICID?
L27	29	SEA FILE=CAPLUS ABB=ON	PLU=ON	L24 OR L26

=> d ibib ed ab 127 1-29

L27 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:844866 CAPLUS Full-text

DOCUMENT NUMBER: 145:271812

TITLE: Preparation of **fungicidal** pyrazine derivatives

INVENTOR(S): Bereznak, James, Francis; Sharpe, Paula, Louise; Sheth, Ritesh, Bharat; Stevenson, Thomas, Martin; Taggi, Andrew, Edmund; **Tseng, Chi-Ping**; Zhang, Wenming

PATENT ASSIGNEE(S): E.I. Dupont De Nemours and Company, USA

SOURCE: PCT Int. Appl., 144pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2006089060	A1	20060824	WO 2006-US5528	20060214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,				

MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,  
 SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,  
 VN, YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2005-653190P P 20050215

OTHER SOURCE(S): MARPAT 145:271812

ED Entered STN: 24 Aug 2006

AB The title compds. I [R1 = NR4R5, N:CR19R21, OR6, G1 or G2; or alkyl, alkenyl, etc. (wherein R4, R5 = H, alkyl, cycloalkyl, etc.; R6 = H, alkyl, cycloalkyl, etc.; R19, R21 = H, alkyl, haloalkyl or cycloalkyl or R19 and R21 are taken together as (CH2)4, (CH2)5, CH2CH2OCH2CH2, CH2CH(Me)OCH(Me)CH2; G1 = 3-7 membered nonarom. carbocyclic or heterocyclic ring; G2 = Ph, 5-6 membered heteroarom. ring); A = O, S or NR7 (R7 = H, alkyl, haloalkyl, etc.); R2 = cyano, 5-6 membered heteroarom. ring, 8-10 membered heteroarom. bicyclic ring, etc.; R3 = H, halo, cyano, alkyl, etc.; J = alkyl, cycloalkyl, Ph, etc.; and their N -oxides and agriculturally suitable salts], useful as **fungicides**, were prepared E.g., a 3-step synthesis of 5-chloro-6-(2,6-difluorophenyl)-1-(2-methylpropyl)-3-(1H-pyrazol-1-yl)-2(1H)-pyrazinone, starting from isobutylamine and 2,6-difluorobenzaldehyde, was given. Exemplified compds. I were tested in various tests (data given). Also disclosed are compns. containing the compds. I and a method for controlling plant diseases caused by fungal plant pathogens which involves applying an effective amount of a compound I.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1329784 CAPLUS Full-text

DOCUMENT NUMBER: 144:46617

TITLE: **Fungicidal** mixtures of amidinylphenyl compounds

INVENTOR(S): Klapproth, Michael Caldwell; **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005120234	A2	20051222	WO 2005-US19376	20050601
WO 2005120234	A3	20061005		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

AU 2005251750 A1 20051222 AU 2005-251750 20050601  
 CA 2564813 A1 20051222 CA 2005-2564813 20050601  
 EP 1750508 A2 20070214 EP 2005-757307 20050601

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA,  
 HR, LV, MK, YU

PRIORITY APPLN. INFO.: US 2004-576780P P 20040603  
 WO 2005-US19376 W 20050601

OTHER SOURCE(S): MARPAT 144:46617

ED Entered STN: 22 Dec 2005

AB Disclosed are **fungicidal** mixts. comprising phenylamidines (a) I [R1 = alkyl; R2 = alkyl or cyclopropyl; R3 H, alkyl or halo; R4 = alkyl, haloalkyl, methoxy, etc.; A = (methyl)alkylene; W= CR5R6R7or SiR8R9R10; R5 = H or (halo)alkyl; R6-10 = (halo)alkyl], I N-oxides or I salts and (b) at least one compound selected from alkylenebis(dithiocarbamate) **fungicides**, compds. acting at the bcl complex of the fungal mitochondrial respiratory electron transfer site, cymoxanil, compds. acting at the demethylase enzyme of the sterol biosynthesis pathway, morpholine and piperidine compds. that act on the sterol biosynthesis pathway, phenylamide **fungicides**, pyrimidinone **fungicides**, chlorothalonil, carboxamides acting at complex II of the fungal mitochondrial respiratory electron transfer site, quinoxifen, metrafenone, cyflufenamid, cyprodinil, copper compds., phthalimide **fungicides**, fosetyl-aluminum, benzimidazole **fungicides**, cyazofamid, fluazinam, iprovalicarb, propamocarb, validamycin, dichlorophenyl dicarboximide **fungicides**, zoxamide and dimethomorph, and their salts.

L27 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:892742 CAPLUS Full-text

DOCUMENT NUMBER: 139:381249

TITLE: Preparation of amidinylphenyl compounds and their use as **fungicides**

INVENTOR(S): Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093224	A1	20031113	WO 2003-US13371	20030430
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003241327	A1	20031117	AU 2003-241327	20030430
EP 1501789	A1	20050202	EP 2003-731059	20030430
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003009599	A	20050301	BR 2003-9599	20030430
CN 1649833	A	20050803	CN 2003-809514	20030430

JP 2005524706 T 20050818 JP 2004-501364 20030430  
 US 2005182025 A1 20050818 US 2003-510083 20030430  
 PRIORITY APPLN. INFO.: US 2002-380095P P 20020503  
 WO 2003-US13371 W 20030430

OTHER SOURCE(S): MARPAT 139:381249

ED Entered STN: 14 Nov 2003

AB The title compds. [I; R1 = H, OH, SH, SO<sub>3</sub>H, CN, etc.; R2 = H, CN, alkyl, carbocyclyl, etc.; R3 = H, alkyl, alkenyl, etc.; or NR<sub>2</sub>R<sub>3</sub> = (un)substituted 3-7 membered heterocyclyl containing one or two addnl. heteroatoms; R4, R5 = alkyl, alkenyl, haloalkyl, etc.; R6 = C5-C21 alkyl, C5-C21 alkenyl, C5-C21 alkynyl, C4-C9 alkoxy carbonyl, C4-C6 alkylaminocarbonyl, C3-C10 dialkylaminocarbonyl or C3-C12 trialkylsilyl, each optionally substituted; or R6 = C1-C4 alkyl or C2-C9 alkyl carbonyl, each substituted with one or more R12; A = a direct bond, O, SOn, or NR10; n = 0-2; m = 0-3; R10 = H, alkyl, alkenyl, etc.; R12 = CO<sub>2</sub>H, CONH<sub>2</sub>, NO<sub>2</sub>, etc.], useful for controlling plant diseases caused by fungal plant pathogens, were prepared Thus, treating N'-(4-hydroxy-2,5-dimethylphenyl)-N,N-dimethylmethanimidamide with NaH in THF followed by addition of 4-bromo-2-methyl-2-butene afforded II which showed 100% control of Puccinia recondita (the causal agent of wheat leaf rust) at 500 g/ha.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:428901 CAPLUS Full-text

DOCUMENT NUMBER: 137:20373

TITLE: Preparation of **herbicidal** heterocycles

INVENTOR(S): Cotterman, Clifford Daniel; Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 147 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044173	A2	20020606	WO 2001-US43357	20011120
WO 2002044173	A3	20021010		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 200225656	A	20020611	AU 2002-25656	20011120
EP 1337531	A2	20030827	EP 2001-995145	20011120
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001016106	A	20030923	BR 2001-16106	20011120
CN 1496365	A	20040512	CN 2001-819900	20011120
JP 2004514720	T	20040520	JP 2002-546543	20011120
NZ 525970	A	20050225	NZ 2001-525970	20011120
ZA 2003004021	A	20040917	ZA 2003-4021	20030523
US 2004106520	A1	20040603	US 2003-432964	20030528
US 7138361	B2	20061121		

IN 2003DN00851	A	20070316	IN 2003-DN851	20030602
US 2006229205	A1	20061012	US 2006-443673	20060531
PRIORITY APPLN. INFO.:			US 2000-250678P	P 20001201
			US 2001-273469P	P 20010305
			US 2001-284616P	P 20010418
			WO 2001-US43357	W 20011120
			US 2003-432964	A3 20030528

OTHER SOURCE(S): MARPAT 137:20373

ED Entered STN: 07 Jun 2002

AB The title compds. [I; A = (un)substituted aryl, heteroarom. ring; Y = O, S; Z = O, SOn, CR3R4; W = (CR3R4)q; R1 = H, alkyl, haloalkyl, etc.; R2a = H, alkyl, haloalkyl; and R2a only exists when the carbon atom to which it is connected is a quaternary carbon center in which case the dotted line, together with the parallel solid line, represents a single bond; R2b = H, alkyl, haloalkyl, etc.; R1 and R2b are taken together as CR3R4CH2CH2, CR3R4(CH2)3, (CH2)mO(CH2)t; R3, R4 = H, alkyl, haloalkyl; n = 0-2; q = 1-2; m = 0-2; t = 0-2; m + t = 2-3], useful for controlling undesired vegetation (biol. data given), were prepared Thus, reacting 5-hydroxy-3-(3-trifluoromethylphenyl)-4-thiazolidinone with 3-(1,1-dimethylethyl)-1H-pyrazole in the presence of di-Et azodicarboxylate and triphenylphosphine in THF afforded II.

L27 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:513682 CAPLUS Full-text

DOCUMENT NUMBER: 133:135313

TITLE: Preparation of **herbicidal**  
oxadiazolidinedionesINVENTOR(S): Annis, Gary David; Chiang, George Chih-Shu; Forney, David Raymond; Patel, Kanu Maganbhai; Rorer, Morris Padgett; Smith, William Francis, III; Stevenson, Thomas Martin; Sun, King-Mo; **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA

SOURCE: PCT Int. Appl., 394 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000043377	A1	20000727	WO 2000-US1283	20000120
W: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2359108	A1	20000727	CA 2000-2359108	20000120
EP 1147096	A1	20011024	EP 2000-913237	20000120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 776425	B2	20040909	AU 2000-34717	20000120
US 6737383	B1	20040518	US 2001-869771	20010629
US 2004063581	A1	20040401	US 2003-634706	20030804
PRIORITY APPLN. INFO.:			US 1999-117210P	P 19990125
			US 1999-138722P	P 19990611
			US 1999-143620P	P 19990713
			US 1999-156362P	P 19990928

WO 2000-US1283

W 20000120

US 2001-869771

A3 20010629

OTHER SOURCE(S): MARPAT 133:135313

ED Entered STN: 28 Jul 2000

AB The title compds. (I) [Q = H, heterocyclyl, (thio)acyl, (thio)carboxy, carbamoyl, alkoxy, amino, sulfamoyl, (un)substituted (cyclo)alkyl, bicycloalkyl, (cyclo)alkenyl, bicycloalkenyl, alkynyl, Ph, or bicycloaryl, etc.; R1 = (un)substituted (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), cycloalkyl, Ph, heterocyclyl, etc.; R2 = (halo)alkyl, cycloalkyl, (halo)alkenyl, (halo)alkynyl, (halo)alkoxy(alkyl), amino, etc.; or R1 and R2 taken together = (CH<sub>2</sub>)<sub>n</sub> or (CH<sub>2</sub>)<sub>2</sub>O(CH<sub>2</sub>)<sub>2</sub>; R6 and R7 = independently H or alkyl; X1 and X2 = independently O or S; X3 = O, S, NH, or N(alkyl); n = 2-5; q = 0-2], their N-oxides, and agriculturally suitable salts were prepared as **herbicides**. I and compns. containing I were tested extensively for their ability to control undesired vegetation. Thus, II was prepared in a multi-step sequence by reaction of 2,4-dichlorophenylisocyanate with NH<sub>2</sub>OH•HCl to form the N-hydroxylurea, cycloaddn. with carbonyl diimidazole to give the 1,2,4-oxadiazolidine-3,5-dione, and N-addition of (4-fluorophenyl)propylcarbamoyl chloride (2-step preparation given) in the presence of 4-dimethylaminopyridine. At 125 g/ha in preemergence and postemergence tests, II exhibited 100% control of bedstraw, black grass, morning glory, nutsedge, redroot pigweed, velvet leaf, and other weeds.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:721692 CAPLUS Full-text

DOCUMENT NUMBER: 129:316221

TITLE: Preparation of pyrazolylcarbonylbenzothiopyran dioxides as **herbicides**.

INVENTOR(S): Tseng, Chi-ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA

SOURCE: PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9849159	A1	19981105	WO 1998-US7978	19980421
W:	AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
IN 1998CA00471	A	20051209	IN 1998-CA471	19980320
CA 2281904	A1	19981105	CA 1998-2281904	19980421
AU 9869776	A	19981124	AU 1998-69776	19980421
EP 977752	A1	20000209	EP 1998-915643	19980421

R: DE, FR, IT

PRIORITY APPLN. INFO.: US 1997-44875P P 19970425

US 1997-52682P P 19970716

WO 1998-US7978 W 19980421

OTHER SOURCE(S): MARPAT 129:316221

ED Entered STN: 13 Nov 1998

AB Title compds. [I; A = O<sub>2</sub>C, OCO<sub>2</sub>, OCOS; Q = (halo)alkyl, alkoxyalkyl, alkenyl, cycloalkyl, (substituted) Ph, PhCH<sub>2</sub>, pyridyl, furyl, thienyl; AQ = O<sub>2</sub>CNR<sub>6</sub>R<sub>7</sub>; R<sub>1</sub> = alkyl; R<sub>2</sub>, R<sub>3</sub> = H, alkyl, halo; R<sub>4</sub>R<sub>5</sub> = OCH<sub>2</sub>CH<sub>2</sub>O, CO; R<sub>6</sub> = alkyl, alkenyl, (substituted) Ph; R<sub>7</sub> = alkyl, alkenyl; R<sub>6</sub>R<sub>7</sub> = (CH<sub>2</sub>)<sub>4</sub>, (CH<sub>2</sub>)<sub>5</sub>, CH<sub>2</sub>CH<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>; with provisos], were prepared Thus, 2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'-[1,3]-dioxolane]-6- carboxylic acid 1,1-dioxide (preparation given) was refluxed with (COCl)<sub>2</sub> and catalytic DMF in CH<sub>2</sub>Cl<sub>2</sub> to give a residue which was stirred overnight with 1-ethyl-1H-pyrazol-5-ol and Et<sub>3</sub>N in CH<sub>2</sub>Cl<sub>2</sub> to give 1-ethyl-1H-pyrazol-5-yl 2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'-[1,3]-dioxolane]-6- carboxylate 1,1-dioxide. This was treated with acetone cyanohydrin and Et<sub>3</sub>N in MeCN and the product was treated with Me<sub>2</sub>CHO<sub>2</sub>CCl to give I (A = O<sub>2</sub>CO; Q = CHMe<sub>2</sub>; R<sub>4</sub>R<sub>5</sub> = OCH<sub>2</sub>CH<sub>2</sub>O; R<sub>2</sub>, R<sub>3</sub> = Me). The latter at 50 g/ha postemergent gave 100% control of chickweed.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:568817 CAPLUS Full-text

DOCUMENT NUMBER: 129:175555

TITLE: Preparation of benzothiopyranone dioxide hydrazones and related compounds as **herbicides**.

INVENTOR(S): Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 66 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9835954	A1	19980820	WO 1998-US2168	19980205
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9862678	A	19980908	AU 1998-62678	19980205
EP 973764	A1	20000126	EP 1998-904923	19980205
R: DE, FR, GB, IT				
PRIORITY APPLN. INFO.:			US 1997-38735P	P 19970214
			WO 1998-US2168	W 19980205

OTHER SOURCE(S): MARPAT 129:175555

ED Entered STN: 07 Sep 1998

AB Title compds. [I; Q = substituted pyrazolyl, isoxazolyl, oxocycloalkenyl, etc.; Q<sub>1</sub> = (CH<sub>2</sub>)<sub>m</sub>; R<sub>1</sub> = alkyl, haloalkyl, alkoxy, haloalkoxy, halo, cyano, NO<sub>2</sub>, aminosulfonyl, etc.; X = O, S, SO, SO<sub>2</sub>, imino, (substituted) CH<sub>2</sub>; R<sub>2</sub> = amino, (substituted) 5-membered N-heteroaryl, 5-6 membered N-heterocyclyl; R<sub>3</sub> = alkyl; m = 0-2; p = 0-4; q = 0-3], were prepared Thus, title compound (II) (preparation starting from 2,5-dimethylthiophenol and 3-bromopropionic acid given) at 50 g/ha postemergent gave 100% control of cocklebur.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:479522 CAPLUS Full-text

DOCUMENT NUMBER: 129:95400  
 TITLE: Substituted benzothiopyran salts and their use as herbicides  
 INVENTOR(S): Tseng, Chi-ping  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 91 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9828291	A1	19980702	WO 1997-US23469	19971217
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1997CA02192	A	20050311	IN 1997-CA2192	19971120
CA 2270245	A1	19980702	CA 1997-2270245	19971217
AU 9856128	A	19980717	AU 1998-56128	19971217
ZA 9711326	A	19990617	ZA 1997-11326	19971217
EP 946540	A1	19991006	EP 1997-952543	19971217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1240440	A	20000105	CN 1997-180557	19971217
NO 9902629	A	19990601	NO 1999-2629	19990601
PRIORITY APPLN. INFO.:			US 1996-33895P	P 19961220
			US 1997-58647P	P 19970911
			WO 1997-US23469	W 19971217

OTHER SOURCE(S): MARPAT 129:95400

ED Entered STN: 03 Aug 1998

AB The title compds. I [Q = Q1, Q2; M = Li, Na, K, Ca, Mg, Co, Ni, Cu, Zn, tetrasubstituted N; x = 1, 2; R1R2C = CO; R1R2 = OCH2CH2O; R3 = Me; R4, R5 = H, alkyl, halo; R6 = alkyl; R7 = alkyl], useful as herbicides, were prepared E.g., (2,3-dihydro-5,8-dimethylspiro[4H-1-benzothiopyran-4,2'-[1,3]dioxolan]-6-yl)(1-ethyl-5-hydroxy-1H-pyrazol-4-yl)methanone S,S-dioxide monopotassium salt was prepared I are active preemergent and postemergent herbicides or plant growth regulants.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:1458 CAPLUS Full-text  
 DOCUMENT NUMBER: 128:61512  
 TITLE: Preparation of herbicidal pyridinyl and pyrazolylphenyl ketones  
 INVENTOR(S): Patel, Kanu Maganbhai; Rorer, Morris Padgett; Tseng, Chi-Ping  
 PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 165 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9746530	A1	19971211	WO 1997-US9569	19970602
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IN 1997CA00623	A	20050311	IN 1997-CA623	19970409
CA 2257196	A1	19971211	CA 1997-2257196	19970602
AU 9732973	A	19980105	AU 1997-32973	19970602
EP 922032	A1	19990616	EP 1997-928809	19970602
R: DE, FR, IT				
ZA 9704916	A	19990126	ZA 1997-4916	19970604
PRIORITY APPLN. INFO.:			US 1996-19352P	P 19960606
			US 1996-33633P	P 19961220
			WO 1997-US9569	W 19970602

OTHER SOURCE(S): MARPAT 128:61512

ED Entered STN: 02 Jan 1998

AB The title compds. [I; Q = II-IV, R10C(O)CHR11; A = 5-10 membered monocyclic or fused bicyclic ring system; R1 = H, C1-6 alkyl, halo, etc.; W = N, CH; R3 = SH, C1-6 alkylthio, phenylthio, etc.; R4 = C1-3 alkyl, C1-3 alkoxy, C1-3 alkylthio, halo; R5 = SH, C1-6 alkylthio, phenylthio, etc.; R6 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R7 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R8 = H, C1-6 alkyl, C1-6 haloalkyl, etc.; R9 = H, C2-6 alkoxy carbonyl, CN, etc.; R10 = C1-6 alkyl, C1-6 haloalkyl, (un)substituted C3-6 cycloalkyl; R11 = CN, C2-6 alkoxy carbonyl, C2-6 alkyl carbonyl, etc.; m = 0-3; p = 0-4] and their (N)-oxides and agriculturally suitable salts, useful for controlling undesired vegetation, were prepared. Thus, treatment of 2,5-dimethyl-3-(1-methyl-1H-pyrazol-3-yl)-4-(methylsulfonyl)benzoic acid with oxalyl chloride and DMF in CH<sub>2</sub>Cl<sub>2</sub> followed by reaction of the acid chloride with 1,3-cyclohexanedione in the presence of Et<sub>3</sub>N in CH<sub>2</sub>Cl<sub>2</sub>, and treatment of the resulting 3-oxo-1-cyclohexen-1-yl 2,5-dimethyl-3-(1-methyl-1H-pyrazol-3-yl)-4-(methylsulfonyl)benzoate with acetone cyanohydrin and Et<sub>3</sub>N in MeCN afforded the title compound V which showed complete control against, e.g., redroot pigweed and speedwell in postemergence tests.

L27 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:450139 CAPLUS Full-text

DOCUMENT NUMBER: 127:81444

TITLE: Preparation of [1]benzothiopyrano[4,3-c]pyrazole ketones and analogs as **herbicides**INVENTOR(S): **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours &amp; Co., USA

SOURCE: PCT Int. Appl., 262 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9719087	A1	19970529	WO 1996-US18381	19961113
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN				

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,  
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,  
MR, NE, SN, TD, TG

IN 1996CA01954	A	20050304	IN 1996-CA1954	19961111
AU 9712725	A	19970611	AU 1997-12725	19961113
EP 876375	A1	19981111	EP 1996-943496	19961113

R: DE, FR, IT

BR 9611731	A	19990223	BR 1996-11731	19961113
ZA 9609610	A	19980515	ZA 1996-9610	19961115
US 5985799	A	19991116	US 1998-68485	19980512

PRIORITY APPLN. INFO.:

US 1995-6876P	P	19951117
WO 1996-US18381	W	19961113

OTHER SOURCE(S): MARPAT 127:81444

ED Entered STN: 19 Jul 1997

AB Title compds. [I; R = (un)substituted 2,6-dioxocyclohexyl, -5-hydroxypyrazol-4-yl, etc.; R1,R2 = H, halo, alkyl, alkoxy, etc.; R3 = 1 or 2 H or alkyl; R4R5 = atoms to complete an (un)substituted benzene or -heteroarom. ring; X = O, SOO-2, CH2, alkylimino, etc.; Z = bond, CH2, CH2CH2; dashed line indicates, e.g., optional bond] were prepared Thus, 2,5-Me2C6H3SH was etherified by ClCH2CH2CO2H and the product converted in 3 steps to 6-bromo-3-dimethylaminomethylene-2,3-dihydro-5,8-dimethyl-4H-1- benzothiopyran-4-one which was cyclocondensed with MeNHNH2 and the carboxylated and oxidized product esterified by 1,3-cyclohexanedione to give, after rearrangement, title compound II. Data for biol. activity of I were given.

L27 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:342737 CAPLUS Full-text

DOCUMENT NUMBER: 127:14452

TITLE: Preparation of **herbicidal** thiophene ketones

INVENTOR(S): **Tseng, Chi-ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: U.S., \9\21 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5631210	A	19970520	US 1996-665166	19960614
PRIORITY APPLN. INFO.:			US 1996-665166	19960614

OTHER SOURCE(S): MARPAT 127:14452

ED Entered STN: 31 May 1997

AB The thiophene ketones I [Q = Q1 or Q2; R1 = H, OH, (halo)alkyl, (halo)alkoxy, etc.; R2 = H, halo, CN, NO2, (halo)alkyl, etc.; R3 = halo, (halo)alkylthio, (halo)alkylsulfinyl, etc.; R4 = halo, alkyl, alkoxy, etc.; R5 = H, (halo)alkyl, formyl, etc.; R6 = H, (halo)alkyl, (un)substituted Ph or benzyl, etc.; R7 = H, (halo)alkyl, halo, CN or NO2; m = 1,2; n = 0,1,2; p, q = n,3,4] are prepared as **herbicides**.

L27 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:181138 CAPLUS Full-text

DOCUMENT NUMBER: 126:171482

TITLE: Preparation of cycloalkyl- and heterocyclylcarbonylbenzothiopyrans and analogs as **herbicides**

INVENTOR(S): **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): E. I. Du Pont, de Nemours & Co., USA  
 SOURCE: PCT Int. Appl., 135 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9701550	A1	19970116	WO 1996-US10623	19960619
W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG,				
CA 2225248	A1	19970116	CA 1996-2225248	19960619
AU 9663365	A	19970130	AU 1996-63365	19960619
AU 695030	B2	19980806		
EP 836600	A1	19980422	EP 1996-922514	19960619
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI				
CN 1189161	A	19980729	CN 1996-195056	19960619
HU 9802204	A2	19990128	HU 1998-2204	19960619
BR 9609502	A	19990525	BR 1996-9502	19960619
JP 11509192	T	19990817	JP 1996-504474	19960619
IN 1996CA01170	A	20050304	IN 1996-CA1170	19960624
ZA 9605522	A	19971229	ZA 1996-5522	19960628
NO 9706073	A	19980227	NO 1997-6073	19971223
US 5952266	A	19990914	US 1997-983596	19971229
PRIORITY APPLN. INFO.:			US 1995-668P	P 19950629
			US 1996-12991P	P 19960307
			WO 1996-US10623	W 19960619

OTHER SOURCE(S): MARPAT 126:171482

ED Entered STN: 19 Mar 1997

AB Title compds. [I; R = (hetero)cyclic groups Q1, Q2, etc.; R1,R2 = (halo)alkoxy, (halo)alkylthio, etc.; R1R2 = atoms to form a heterocyclic ring; R3 = H or Me; R4,R5 = H, halo, alkyl, alkoxy, etc.; R6 = OH, alkoxy, alkylthio, etc.; R8 = H, alkyl, alkanoyl, etc.; R9 = H, alkyl, CH2Ph, etc.; R10 = H, halo, (halo)alkyl, etc.; Z = O, SO0-2, (alkyl)imino, etc.; m,p,k = 0-2; m+k = 0-2] were prepared Thus, 4-BrC6H4SH was etherified by BrCH2CH2CO2H and the product cyclized to give, after ketalization, carboxylation, and oxidation, benzothiopyran II (R = OH). The latter was esterified by cyclohexane-1,3-dione to give II (R = 3-oxo-1-cyclohexenyl) which was treated with Me2C(OH)CN to give II (R = Q1, R6 = OH). Data for biol. activity of I were given.

L27 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:713002 CAPLUS Full-text

DOCUMENT NUMBER: 125:328721

TITLE: Preparation of **herbicidal**  
heteroaryl-substituted anilides

INVENTOR(S): Petersen, Wallace Christian; Pifferitti, Michael  
Anthony; Stevenson, Thomas Martin; **Tseng,**  
**Chi-Ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 178 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9631517	A1	19961010	WO 1996-US3803	19960320
W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9654262	A	19961023	AU 1996-54262	19960320
PRIORITY APPLN. INFO.:			US 1995-416415	A2 19950404
			WO 1996-US3803	W 19960320

OTHER SOURCE(S): MARPAT 125:328721

ED Entered STN: 05 Dec 1996

AB The title compds. [I; Q = II, III, IV; T = O, S; X = a single bond, O, S, (un)substituted NH; Y = O, S, CH:CH, etc.; Z, W = CH, N; V = CH, CMe, N; R1 = C1-5 alkyl, CH2(C3-4 cycloalkyl), C3-6 cycloalkyl, etc.; R2, R3 = H, halo, C1-2 alkyl, etc.; R4 = C1-4 haloalkyl, C1-4 haloalkoxy, CN, etc.; n = 0-1] and their oxides, and agriculturally-suitable salts which are useful for controlling undesired vegetation, were prepared Thus, treatment of 5-(trifluoromethyl)-4H-1,2,4-triazole-3(2H)-thione with Na in MeOH followed by addition of 1-(2-amino-5-methylphenyl)-2-chloroethanone, cyclization of the resulting intermediate V with concentrated H2SO4 and reaction of benzamine VI with Me2CHCH2COCl in the presence of Et3N in Et2O afforded I [Q = II; T = O; X = a single bond; Y = S; Z, W = N; R1 = Me2CHCH2; R2 = Me; R3 = H; R4 = CF3] which showed 100% control in preemergence tests carried out on bedstraw, crabgrass, giant foxtail.

L27 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:314049 CAPLUS Full-text

DOCUMENT NUMBER: 125:58525

TITLE: **Herbicidal triazolecarboxamides.**

INVENTOR(S): **Tseng, Chi Ping**

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: U.S., 100 pp., Cont.-in-part of U.S. Ser. No. 784,343, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5510320	A	19960423	US 1994-211721	19940426
WO 9309100	A1	19930513	WO 1992-US8822	19921022
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, UA, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 1991-784343	B2 19911029
			WO 1992-US8822	W 19921022

OTHER SOURCE(S): MARPAT 125:58525

ED Entered STN: 30 May 1996

AB Triazolecarboxamides I [A = (un)substituted 5-membered heterocycle containing 1-3 heteroatoms selected from 0-3 N, 0-1 O, and 0-1 S; R1 = H, (alkoxy- or halo)alkyl, cycloalkyl, (halo)alkenyl, alkynyl, alkoxy; R2 = (alkoxy- or halo)alkyl, cycloalkyl, (halo)alkenyl, alkynyl; n = 0-2, and 2 when S atom is bound to N] are useful as agricultural chems. In particular, the compds. are useful as **herbicides**, both general and selective, both post-emergent and pre-emergent. Examples of selective activity include excellent control of blackgrass and wild oats with outstanding wheat tolerance, and control of crabgrass, giant foxtail, barnyardgrass and blackgrass with outstanding tolerance to corn, soybeans, rice, cotton, wheat, sugarbeets and rape. For example, 1,2,4-triazole-3-thiol was thioetherified with 3-chloro-2,4-pentanedione, followed by cyclization of the resultant dione with ethylhydrazine (as oxalate), N-acylation of the triazole N with Et2NCOCl, and S-oxidation of the thioether with m-ClC6H4C(O)OOH, to give title compound II. At 62 g/ha pre-emergence, II gave complete control of crabgrass and fall panicum without damage to cotton or soybean. Examples include approx. 85 compds. I and approx. 25 intermediates, with characterizing data, 4 formulations, and **herbicidal** screenings against multiple plants, at various rates and under a variety of conditions.

L27 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:773000 CAPLUS Full-text

DOCUMENT NUMBER: 123:191221

TITLE: Preparation of substituted pyridine **herbicides**

INVENTOR(S): Drumm, Joseph E.; Lett, Renee M.; Rayner, Dennis R.; Rorer, Morris P.; **Tseng, Chi-Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: U.S., 74 pp. Cont.-in-part of U.S. Ser. No. 731, 909, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5438033	A	19950801	US 1993-150193	19931209
WO 9222203	A1	19921223	WO 1992-US4644	19920609
W:	AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US			
RW:	AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG			
PRIORITY APPLN. INFO.:			US 1991-713909	B2 19910612
			WO 1992-US4644	W 19920609

OTHER SOURCE(S): MARPAT 123:191221

ED Entered STN: 02 Sep 1995

AB The pyridine derivs. I [R1 = Cl, Br, iodo, OMe, OCHF2, OCF3; R2 = CN, CO2H, CHO, etc.; R3 = alkyl, alkoxy, (un)substituted Ph, etc.] are prepared as **herbicides**. The invention also pertains to mixts. of I with known **herbicides**, such as butachlor.

L27 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:649954 CAPLUS Full-text

DOCUMENT NUMBER: 119:249954

TITLE: **Herbicidal** triazolecarboxamides

INVENTOR(S): **Tseng, Chi Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA  
 SOURCE: PCT Int. Appl., 237 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9309100	A1	19930513	WO 1992-US8822	19921022
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
CN 1071924	A	19930512	CN 1992-112827	19920923
ZA 9207272	A	19940323	ZA 1992-7272	19920923
AU 9228716	A	19930607	AU 1992-28716	19921022
EP 610314	A1	19940817	EP 1992-922261	19921022
R: DE, ES, FR, GB, IT				
US 5510320	A	19960423	US 1994-211721	19940426
PRIORITY APPLN. INFO.:			US 1991-784343	A2 19911029
			WO 1992-US8822	A 19921022

OTHER SOURCE(S): MARPAT 119:249954

ED Entered STN: 11 Dec 1993

AB The title compds. I [A = substituted 5-membered heterocyclic ring; R1 = H, (un)substituted C1-6 alkyl, C3-6 cycloalkyl, (un)substituted C2-6 alkenyl, C3-6 alkynyl, C1-3 alkoxy; R2 = (un)substituted C1-6 alkyl, C3-6 cycloalkyl, (un)substituted C2-6 alkenyl, C3-6 alkynyl; n = 0-2; R1R2 = (CH2)x; x = 3-6], which offer outstanding tolerance to corn, soybeans, rice, cotton, wheat, sugarbeets, etc., and control of crab grass, giant fox tail, barnyard grass, and black grass, are prepared Thus, 1,2,4-triazol-3-thiol was reacted with Na in the presence of 3-chloro-2,4-pentanedione, the intermediate reacted with ethylhydrazine oxalate in the presence of Na, diethylcarbamy chloride added, and the mixture oxidized with 3-chloroperoxybenzoic acid, producing N,N-diethyl-3-[(1-ethyl-3,5-dimethyl-1H-pyrazol-4-yl)sulfonyl]-1H-1,2,4- triazole-1-carboxamide.

L27 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:408685 CAPLUS Full-text

DOCUMENT NUMBER: 119:8685

TITLE: Preparation of substituted pyridine **herbicides**

INVENTOR(S): Drumm, Joseph E.; Lett, Renee Marie; Rayner, Dennis R.; Rorer, Morris Padgett; **Tseng, Chi Ping**; Patel, Kanu Maganbhai; Yang, Alexander Yung Shing

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: PCT Int. Appl., 145 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9222203	A1	19921223	WO 1992-US4644	19920609
W: AU, BB, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,				

GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG

AU 9221874	A	19930112	AU 1992-21874	19920609
EP 590045	A1	19940406	EP 1992-913990	19920609
R: DE, ES, FR, GB, IT				
JP 06508621	T	19940929	JP 1993-500912	19920609
CN 1069972	A	19930317	CN 1992-105947	19920612
US 5438033	A	19950801	US 1993-150193	19931209
PRIORITY APPLN. INFO.:			US 1991-713909	A2 19910612
			WO 1992-US4644	A 19920609

OTHER SOURCE(S): MARPAT 119:8685

ED Entered STN: 10 Jul 1993

AB **Herbicidal** compns. containing pyridines I [R1 = Cl, Br, iodo, OMe, OCHF2, OCF3; R2 = cyano, CHO, (un)substituted CO2H, C(X)NH2, C(S)OH, C.tplbond.CH, etc.; R3 = (un)substituted alkyl, alkenyl, Ph, alkoxy, alkylthio, amino, PhO, PhS, etc., cycloalkyl(methyl); X = O, S], or their N-oxides or salts, and a surfactant and/or a (solid or liquid) diluent are claimed, and over 100 I were prepared. The compns. may contain addnl. known **herbicides** such as mefenacet, bensulfuron Me, or butachlor (II). For example, cyclization of Et formate with MeCOCH2CHMe2 and cyanoacetamide, treatment of the resultant 1,2-dihydro-2-oxo-6-(3-methylbutyl)pyridine-3-carbonitrile with POCl3 and PCl5, and H2O2-assisted basic hydrolysis of the cyano group, gave I (R1 = Cl, R2 = CONH2, R3 = 6-CH2CH2CHMe2) (III). In postemergence tests, II at 250 g/ha and III at 64 g/ha gave 35% and 80% control of Echinochloa oryzicola, resp., without phytotoxicity to rice; a combination of the 2 compds. as above gave 90% control (vs. 87% predicted for nonsynergistic).

L27 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:122265 CAPLUS Full-text

DOCUMENT NUMBER: 114:122265

TITLE: Heterocyclic amine precursors to sulfonylurea **herbicides**

AUTHOR(S): Zimmerman, W. T.; Hillemann, C. L.; Selby, T. P.; Shapiro, R.; Tseng, C. P.; Wexler, B. A.

CORPORATE SOURCE: Stine-Haskell Res. Cent., E. I. du Pont de Nemours and Co., Newark, DE, 19714, USA

SOURCE: ACS Symposium Series (1991), 443(Synth. Chem. Agrochem. 2), 74-86

CODEN: ACSMC8; ISSN: 0097-6156

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 06 Apr 1991

AB A symposium report. Numerous substituted pyrimidine and triazine amines have found utility as precursors to highly active and crop selective sulfonylurea **herbicides**. In the process of optimizing **herbicidal** efficacy and crop safety within this class, a variety of structurally diverse heterocyclic amines were synthesized and evaluated. This paper reviews the methods of preparation that were developed for some of the different structural types used as intermediates to active sulfonylurea **herbicides**. These methods include cyclizations, rearrangements, and side-chain metalations that have led to furo[2,3-d]pyrimidines, pyrazinones, and selectively functionalized pyrimidines, triazines, triazoles, and pyridines.

L27 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:7508 CAPLUS Full-text

DOCUMENT NUMBER: 112:7508

TITLE: Heterocyclic acyl sulfonamides useful as **herbicides** and plant growth regulants, and their compositions and use

INVENTOR(S): Tseng, Chi Ping  
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA  
 SOURCE: U.S., 117 pp. Cont.-in-part of U.S. Ser. No. 22,949,  
 abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4838925	A	19890613	US 1987-101314	19870925
CA 1273336	A1	19900828	CA 1987-535404	19870423
DK 8702085	A	19871026	DK 1987-2085	19870424
AU 8771955	A	19871029	AU 1987-71955	19870424
JP 63022077	A	19880129	JP 1987-101171	19870425
ZA 8702980	A	19881228	ZA 1987-2980	19870427
US 4908056	A	19900313	US 1989-311897	19890217
PRIORITY APPLN. INFO.:			US 1986-856511	A2 19860425
			US 1986-892062	A2 19860801
			US 1987-22949	A2 19870317
			US 1987-22279	B2 19870317
			US 1987-101314	A3 19870925

OTHER SOURCE(S): CASREACT 112:7508; MARPAT 112:7508

ED Entered STN: 06 Jan 1990

AB Sulfonamides LSO2NRC(:W)A and derivs. LSO2N:C(G)A [R = H, (halo)alkyl, (halo)thioalkyl, allyl, propargyl, alkanoyl, CO2Me, CO2Et, (un)substituted PhCH2; G = Cl, (halo)alkoxy, (halo)alkylthio; W = O, S, NH or NOH optionally substituted by (halo)alkyl; L = various (un)substituted aryl and heteroaryl nuclei; A = various fused bi- and tri-cyclic aromatic heterocycles containing ≥1 N atom and possibly O or S; numerous provisos], useful as **herbicides** and plant growth regulants, are prepared Thus, condensation of 5,7-dimethylpyrazolo[1,5-a]pyrimidine-3- carboxylic acid with 2-(H2NSO2)C6H4CO2Me via the acid chloride (SOCl2, pyridine, CH2Cl2) in CH2Cl2 containing Et3N gave Me [[dimethylpyrazolopyrimidine)carbonylamino]sulfonyl]benzoate I. At 0.4 kg/ha postemergence, I completely killed 5 weeds including Xanthium pensylvanicum and Bromus secalinus. Over 130 compds. were prepared and over 80 were tested pre- and postemergence.

L27 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1989:492328 CAPLUS Full-text

DOCUMENT NUMBER: 111:92328

TITLE: **Herbicidal** sulfonamides

INVENTOR(S): Tseng, Chi Ping

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: Eur. Pat. Appl., 249 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 301919	A2	19890201	EP 1988-307095	19880801
EP 301919	A3	19890329		
R: ES, GR				
US 4921527	A	19900501	US 1988-190242	19880504



WO 8900994 A2 19890209 WO 1988-US1972 19880615  
 WO 8900994 A3 19890420  
 RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
 EP 368897 A1 19900523 EP 1988-906362 19880615  
 R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE  
 PRIORITY APPLN. INFO.: US 1987-80471 A 19870731  
 US 1988-190242 A 19880504  
 US 1988-190243 A 19880504

OTHER SOURCE(S): MARPAT 111:92328

ED Entered STN: 16 Sep 1989

AB The sulfonamides LSO2NHC(:W)NRA (I) [L = (un)substituted bicyclic (fused 6- and 5-membered) heterocyclyl, containing  $\geq 2$  N; A = (un)substituted 1,2,4-triazol-2-yl, 1,3,5-triazinyl, pyrimidin-2-yl, etc.; W = O, S; R = H, Me] and their salts are prepared as **herbicides**. 1,8-Diazabicyclo[4,5,0]undec-7-ene was added to a suspension of 5,7-dimethylpyrazole[1,5-a]pyrimidine-3-sulfonamide (preparation given) and Ph 4,6-dimethoxy-2-pyrimidinylcarbamate in anhydrous acetonitrile, to give I (L = 5,7-dimethylpyrazolo[1,5-a]pyrimidin-3-yl; A = 4,6-dimethoxy-2-pyrimidinyl; R = H, W = O) (II). II, applied postemergence, at 0.05 kg/ha, totally controlled morning-glory (Ipomoea), cocklebur (Xanthium pensylvanicum), nutsedge (Cyperus rotundus) and other weeds. A wettable powder comprised II 90, Na dioctylsulfosuccinate 0.5 and SiO<sub>2</sub> 9.9%.

L27 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:528833 CAPLUS Full-text

DOCUMENT NUMBER: 109:128833

TITLE: Preparation of 2-[[N-(3-cyano-pyridin-2-yl)aminocarbonyl]aminosulphonyl]benzoates having **herbicidal** activity

INVENTOR(S): Holyoke, Caleb W., Jr.; Tseng, Chi Ping;  
 Zimmerman, William T.

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: U.S., 29 pp. Cont.-in-part of U.S. Ser. No. 591,314, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4723991	A	19880209	US 1985-770257	19850828
AU 8427738	A	19841115	AU 1984-27738	19840507
AU 571869	B2	19880428		
DK 8402288	A	19841110	DK 1984-2288	19840508
ZA 8403448	A	19851224	ZA 1984-3448	19840508
CA 1236103	A1	19880503	CA 1984-453865	19840508
JP 59231004	A	19841225	JP 1984-91136	19840509
BR 8402136	A	19841218	BR 1984-2136	19841109
CA 1273926	A2	19900911	CA 1987-536452	19870505
US 4906288	A	19900306	US 1987-116551	19871104
PRIORITY APPLN. INFO.:			US 1983-493079	A2 19830509
			US 1984-591314	A2 19840323
			CA 1984-453865	A3 19840508
			US 1985-770257	A2 19850828

OTHER SOURCE(S): CASREACT 109:128833; MARPAT 109:128833

ED Entered STN: 14 Oct 1988

AB JSO2NHC(:W1)NRA (I; A = substituted cyanopyridyl; J = substituted Ph; R = H, Me; W1 = O, S) and their salts, were prepared Me 2-amino-4,6-

dimethylpyridine-3-carboxylate and 2-ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NCO were reacted at room temperature in MeCN for 48 h to give 2-chloro-N-[(4,6-dimethyl-3-methoxycarbonylpyridin-2-yl)aminocarbonyl]benzenesulfonamide which gave 90% growth retardation of barnyardgrass and wild oats at 50 g/ha preemergent.

L27 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:186762 CAPLUS Full-text  
 DOCUMENT NUMBER: 108:186762  
 TITLE: Preparation, testing, and formulation of heterocyclic acetyl sulfonamides as **herbicides** and plant growth regulators  
 INVENTOR(S): **Tseng, Chi Ping**  
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA  
 SOURCE: Eur. Pat. Appl., 471 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 244166	A2	19871104	EP 1987-303616	19870424
EP 244166	A3	19890726		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 1273336	A1	19900828	CA 1987-535404	19870423
DK 8702085	A	19871026	DK 1987-2085	19870424
AU 8771955	A	19871029	AU 1987-71955	19870424
JP 63022077	A	19880129	JP 1987-101171	19870425
ZA 8702980	A	19881228	ZA 1987-2980	19870427
PRIORITY APPLN. INFO.:			US 1986-856511	A 19860425
			US 1986-892062	A 19860801
			US 1987-22949	A 19870317

ED Entered STN: 28 May 1988

AB LSO<sub>2</sub>NRC(:W)A and LSO<sub>2</sub>N:CGA [I and II; R = H, (halo)alkyl, (halo)thioalkyl, (substituted) PHCH<sub>2</sub>; H<sub>2</sub>C:CHCH<sub>2</sub>, HC.tplbond.CCH<sub>2</sub>, acyl, CO<sub>2</sub>Me, CO<sub>2</sub>Et; A = bicyclic, tricyclic, or quadricyclic heterocyclyl; G = Cl, alkoxy, thioalkoxy; W = O, S, imino, oximino; L = (substituted) Ph, naphthyl, N-oxopyridyl, thienyl, pyrazolyl, imidazolyl, etc.] were prepared as **herbicides**. 5,7-Dimethylpyrazolo(1,5-a)pyrimidine-3-carboxylate was converted to the acid chloride which in turn was amidated by Me 2-(aminosulfonyl)benzoate in CH<sub>2</sub>Cl<sub>2</sub> at room temperature to give Me 2-((5,7-dimethylpyrazolo(1,5-a)pyrimidine-3-yl)-carbonylamino)sulfonyl)benzoate. Several I and II gave complete control of velvet leaf at 0.4 kg/ha postemergent.

L27 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:578272 CAPLUS Full-text  
 DOCUMENT NUMBER: 103:178272  
 TITLE: **Herbicidal** benzenesulfonamides, benzylsulfonamides and benzenesulfamates  
 INVENTOR(S): Hanagan, Mary Ann; Hay, James Volney; **Tseng, Chi Ping**  
 PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA  
 SOURCE: Eur. Pat. Appl., 211 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 135332	A1	19850327	EP 1984-305305	19840803
EP 135332	B1	19881207		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4604131	A	19860805	US 1984-628259	19840712
US 4652304	A	19870324	US 1984-628939	19840713
CA 1221690	A1	19870512	CA 1984-460226	19840802
AT 39118	T	19881215	AT 1984-305305	19840803
US 4786316	A	19881122	US 1986-941713	19861212
PRIORITY APPLN. INFO.:			US 1983-520801	A 19830805
			US 1983-533771	A 19830919
			US 1983-559372	A 19831208
			US 1984-624843	A 19840629
			US 1984-628259	A 19840712
			US 1984-628939	A 19840713
			EP 1984-305305	A 19840803

OTHER SOURCE(S): CASREACT 103:178272; MARPAT 103:178272

ED Entered STN: 30 Nov 1985

AB RSO<sub>2</sub>NHCONR<sub>1</sub>R<sub>2</sub> (I; R = substituted Ph, PhCH<sub>2</sub>, PhO; R<sub>1</sub> = H, Me; R<sub>2</sub> = substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl, 1,3,5-triazin-2-ylmethyl, 1H-1,2,4-triazol-3-yl) were prepared Thus, PhSO<sub>2</sub>NHMe<sub>3</sub> was treated with BuLi and Me<sub>2</sub>S<sub>2</sub> to give 2-MeSC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHMe<sub>3</sub> which was phenylated by treatment with BuLi and PhI to give 2,6-Ph(MeS)C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NHMe<sub>3</sub>. This was de-tert-butylated, oxidized to the sulfone, and treated with Me (4-methoxy-6-methyl-2-pyrimidinyl)carbamate to give sulfonylurea II. I are effective pre- and postemergence herbicides at 50-400 g/ha.

L27 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:149284 CAPLUS Full-text

DOCUMENT NUMBER: 102:149284

TITLE: Herbicidal sulfonamides

INVENTOR(S): Holyoke, Caleb William, Jr.; Tseng, Chi Ping  
; Zimmerman, William Thomas

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: Eur. Pat. Appl., 76 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 125864	A1	19841121	EP 1984-303076	19840508
EP 125864	B1	19870408		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AU 8427738	A	19841115	AU 1984-27738	19840507
AU 571869	B2	19880428		
DK 8402288	A	19841110	DK 1984-2288	19840508
ZA 8403448	A	19851224	ZA 1984-3448	19840508
AT 26442	T	19870415	AT 1984-303076	19840508
CA 1236103	A1	19880503	CA 1984-453865	19840508
JP 59231004	A	19841225	JP 1984-91136	19840509
BR 8402136	A	19841218	BR 1984-2136	19841109
CA 1273926	A2	19900911	CA 1987-536452	19870505
PRIORITY APPLN. INFO.:			US 1983-493079	A 19830509

US 1984-591314 A 19840323  
 CA 1984-453865 A3 19840508  
 EP 1984-303076 A 19840508

OTHER SOURCE(S): MARPAT 102:149284

ED Entered STN: 04 May 1985

AB Sulfonylureas I (X = CH, N; R = substituted Ph, naphthyl, 2-alkoxycarbonylbenzyl, 3-pyridyl, thienyl, benzothienyl, benzofuryl, benzisothiazolyl, benzopyranyl; R1 = H, Me; R2 = cyano, CO2Me, CO2Et, NO2, alkylsulfinyl, alkylsulfonyl, carbamoyl; R3 = Me, OMe, OEt, CH2OMe, Cl; R4 = Me, OMe, OEt, Cl) were prepared Thus, 2-amino-4,6-dimethyl-3-pyridinecarbonitrile was treated with 2-O2NC6H4SO2NCO to give II which at 50 g/ha preemergence gave ≥80% control of Ipomoea hederacea.

L27 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:95668 CAPLUS Full-text

DOCUMENT NUMBER: 102:95668

TITLE: **Herbicidal** sulfonamide inner salts

INVENTOR(S): **Tseng, Chi Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: U.S., 30 pp. Cont.-in-part of U.S. Ser. No. 467,650, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4484939	A	19841127	US 1983-551004	19831116
EP 117014	A1	19840829	EP 1984-300013	19840103
EP 117014	B1	19880706		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 35541	T	19880715	AT 1984-300013	19840103
US 4604133	A	19860805	US 1984-670967	19841113
PRIORITY APPLN. INFO.:			US 1983-467650	A2 19830218
			US 1983-455504	A 19830104
			US 1983-551004	A 19831116
			US 1983-551381	A 19831117
			EP 1984-300013	A 19840103

OTHER SOURCE(S): CASREACT 102:95668

ED Entered STN: 22 Mar 1985

AB RSO2N-CONR1S+R2R3 [I; R = substituted Ph, heterocyclyl; R1 = substituted 2-pyrimidinyl, 1,3,5-triazin-2-yl; R2,R3 = Me, Et] were prepared Thus, 2-amino-4,6-dimethylpyrimidine and Me2S in CH2Cl2 were treated with N-chlorosuccinimide at -20° to give sulfilimine II. This was treated with 2-ClC6H4SO2NCO to give sulfiliminium inner salt III. Against, e.g., Xanthium pennsylvanicum 0.4 kg II/ha gave 100% kill.

L27 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1985:6533 CAPLUS Full-text

DOCUMENT NUMBER: 102:6533

TITLE: **Herbicidal** N-hydroxy-N'-sulfonylguanidines and sulfonamide inner salts

INVENTOR(S): Shapiro, Rafael; **Tseng, Chi Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: Eur. Pat. Appl., 187 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 6  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 117014	A1	19840829	EP 1984-300013	19840103
EP 117014	B1	19880706		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4484939	A	19841127	US 1983-551004	19831116
AT 35541	T	19880715	AT 1984-300013	19840103
US 4689070	A	19870825	US 1985-736950	19850522
US 4750930	A	19880614	US 1987-60212	19870610
US 4904299	A	19900227	US 1988-156891	19880217
PRIORITY APPLN. INFO.:			US 1983-455504	A 19830104
			US 1983-467650	A 19830218
			US 1983-551004	A 19831116
			US 1983-551381	A 19831117
			EP 1983-300078	A 19830107
			CA 1983-443738	A 19831220
			EP 1984-300013	A 19840103
			US 1985-736950	A3 19850522
			US 1987-60212	A3 19870610

OTHER SOURCE(S): CASREACT 102:6533; MARPAT 102:6533

ED Entered STN: 12 Jan 1985

AB **Herbicidal** RSO<sub>2</sub>N-CON(S+R<sub>1</sub>R<sub>2</sub>)R<sub>3</sub> [R = (unsubstituted Ph, 1-naphthyl, 3-pyridyl, 3-thienyl, heteroaryl; R<sub>1</sub>, R<sub>2</sub> = Me, Et; R<sub>3</sub> = (un)substituted triazinyl, pyrimidinyl, heterocyclopyrimidyl, triazolyl] and benzenesulfonamides I (R<sub>4</sub> = Cl, CO<sub>2</sub>Me, SO<sub>2</sub>NMe<sub>2</sub>; R<sub>5</sub> = H, Ac; R<sub>6</sub>, R<sub>7</sub> = Me, OMe; X = CH, N) were prepared. Thus, aminopyrimidine II (R<sub>8</sub> = NH<sub>2</sub>) reacted with Me<sub>2</sub>S and N-chlorosuccinimide to give II (R<sub>8</sub> = N-S+Me<sub>2</sub>), which gave the sulfonium inner salt III on treatment with 2-ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NCO. At 0.4 kg/ha postemergent, III gave complete kill of *Cyperus rotundus* (nutsedge).

L27 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:34561 CAPLUS Full-text

DOCUMENT NUMBER: 100:34561

TITLE: Fused [1,2,4]oxadiazolylidenebenzenesulfonamides and their use as **herbicides** and plant-growth regulants

INVENTOR(S): **Tseng, Chi Ping**

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: U.S., 18 pp. Cont.-in-part of U.S. Ser. No. 228,705, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4411690	A	19831025	US 1981-326267	19811203
BR 8200315	A	19821123	BR 1982-315	19820122
DK 8200318	A	19820727	DK 1982-318	19820125
AU 8279806	A	19820805	AU 1982-79806	19820125
EP 58476	A2	19820825	EP 1982-300352	19820125
EP 58476	A3	19821124		

R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE  
 JP 57146783 A 19820910 JP 1982-9030 19820125  
 PRIORITY APPLN. INFO.: US 1981-228705 A2 19810126  
 US 1981-326267 A 19811203

OTHER SOURCE(S): CASREACT 100:34561

ED Entered STN: 12 May 1984

AB Title compds. I (R = alkyl, alkoxy, halo, NO<sub>2</sub>, acyl, alkylsulfonyl, substituted sulfamoyl, halogenated ethoxysulfonyl, etc.; R<sub>1</sub> = H, halo, CF<sub>3</sub>, NO<sub>2</sub>, alkyl, alkoxy; R<sub>2</sub> = alkyl, alkoxy; R<sub>3</sub> = H, Cl, CF<sub>3</sub>, alkyl, alkoxy, alkoxyalkyl) were prepared. Thus, 2.0 g 2-ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>N:C(SMe)<sub>2</sub> was treated with 2 portions (3.3 and 2.0 g) of SO<sub>2</sub>Cl<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub>, and the resulting mixture reacted with 1.0 g pyrimidinamine II and 0.54 g NaH in THF to give 0.7 g title product III. I were rated for **herbicidal** activity on a scale of 1 to 10 (highest). E.g., III received a rating of 10 in the postemergent defoliation of bushbean and a rating of 9 in the preemergent growth retardation of morning glory.

L27 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:53904 CAPLUS Full-text

DOCUMENT NUMBER: 98:53904

TITLE: Fused [1,2,4]oxadiazolylidenebenzenesulfonamides and their use as **herbicides** and plant growth regulants

INVENTOR(S): Tseng, Chi Ping

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: Eur. Pat. Appl., 67 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 58476	A2	19820825	EP 1982-300352	19820125
EP 58476	A3	19821124		

R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE

US 4411690 A 19831025 US 1981-326267 19811203  
 PRIORITY APPLN. INFO.: US 1981-228705 A 19810126  
 US 1981-326267 A 19811203

OTHER SOURCE(S): MARPAT 98:53904

ED Entered STN: 12 May 1984

AB The title compds. I [R = alkyl, alkoxy, F, Cl, Br, NO<sub>2</sub>, CF<sub>3</sub>, alkoxycarbonyl, alkenyloxycarbonyl, SO<sub>2</sub>R<sub>4</sub> (R<sub>4</sub> = dialkylamino, alkyl, alkoxy, OS(O)R<sub>5</sub> (R<sub>5</sub> = alkyl), R<sub>1</sub> = H, R, Cl, Br, CF<sub>3</sub>, HO<sub>2</sub>, alkyl, alkoxy; R<sub>2</sub> = Me, Et, MeO, EtO; R<sub>3</sub> = H, Cl, CF<sub>3</sub>, alkyl, alkoxy, CH<sub>2</sub>OMe, CH<sub>2</sub>OEt, CH<sub>2</sub>CH<sub>2</sub>OMe, CH<sub>2</sub>CH<sub>2</sub>OEt; X = CH, N] and their agriculturally acceptable salts were prepared. Thus, 4,6-dimethyl-2-pyrimidinamine was oxidized with m-ClC<sub>6</sub>H<sub>4</sub>C(O)OOH to give 4,6-dimethyl-2-pyrimidinamine oxide, which was treated with o-ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>N:C(SMe)<sub>2</sub> to give the oxadiazolopyrimidine II. The pre- and postemergence activity of six I against a variety of plants was tabulated.

L27 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:4570 CAPLUS Full-text

DOCUMENT NUMBER: 98:4570

TITLE: Sulfonylurea N-oxides

INVENTOR(S): Tseng, Chi Ping

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co. , USA

SOURCE: Eur. Pat. Appl., 222 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 57546	A2	19820811	EP 1982-300353	19820125
EP 57546	A3	19821103		
R: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
BR 8200353	A	19821123	BR 1982-353	19820122
DK 8200319	A	19820727	DK 1982-319	19820125
AU 8279805	A	19820805	AU 1982-79805	19820125
JP 57146764	A	19820910	JP 1982-9029	19820125
PRIORITY APPLN. INFO.:			US 1981-228706	A 19810126
			US 1981-325121	A 19811130

ED Entered STN: 12 May 1984

AB RSO<sub>2</sub>NHCONR<sub>1</sub>R<sub>2</sub> (R = substituted phenyl, pyridyl, thienyl, 1-naphthyl; R<sub>1</sub> = substituted pyrimidinyl, triazinyl, furopyrimidinyl, pyranopyrimidinyl; R<sub>2</sub> = H, Me) (30 compds.) were prepared. Thus, 4,6-dimethyl-2-pyrimidinamine was oxidized to the 1-oxide and treated with 2-ClC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NCO to give I which at 0.4 kg/ha pre- were post-emergence gave > 90% control of various weeds.

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STRUCTURE FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2  
 DICTIONARY FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

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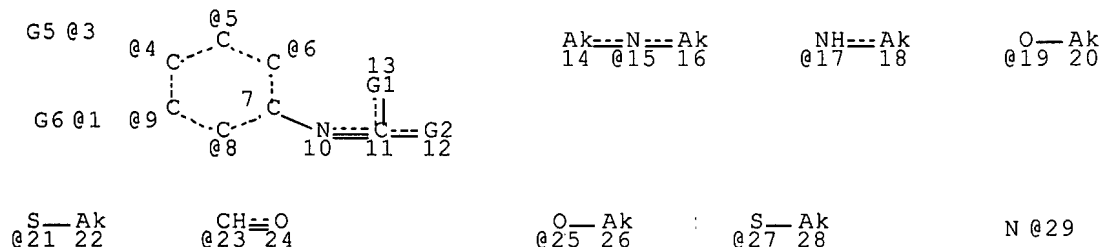
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 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

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L6

STR



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 VAR G2=NH2/15/17/29  
 VAR G5=X/CN/AK/19/21/23  
 VAR G6=25/27/AK  
 VPA 3-6/5/4/9/8 SE  
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 DEFAULT ECLEVEL IS LIMITED

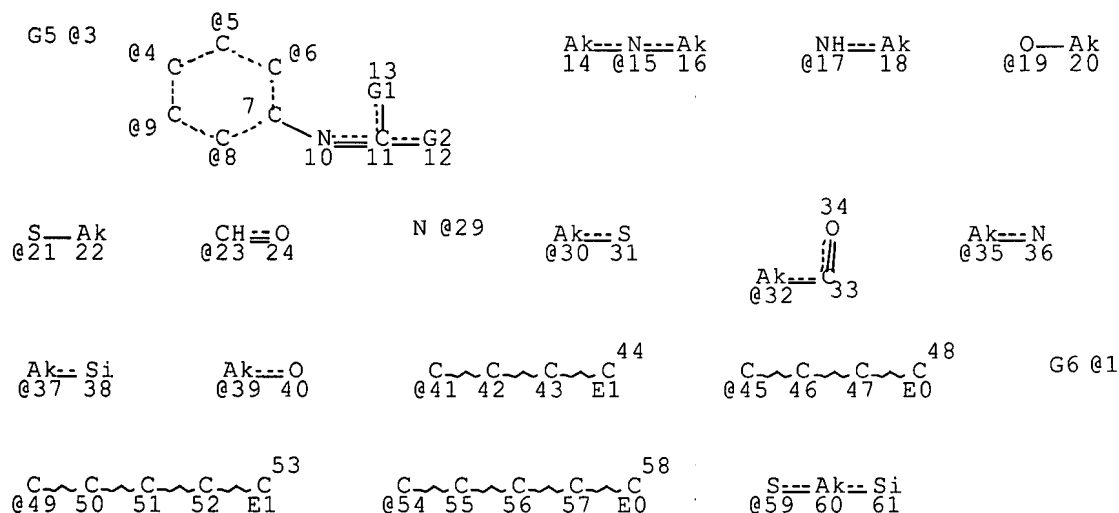
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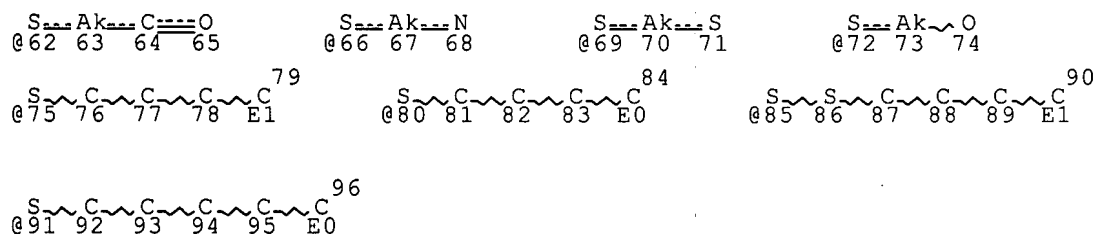


L15

STR



Page 1-A



Page 2-A

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VAR G5=X/CN/AK/19/21/23

VAR G6=30/32/35/37/39/41/45/49/54/59/62/66/69/72/75/80/85/91

VPA 3-6/5/4/9/8 SE

VPA 1-6/5/4/9/8 SE

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HCOUNT	IS	E1	AT	90	
HCOUNT	IS	E0	AT	96	
NSPEC	IS	R	AT	29	
CONNECT	IS	M2	RC	AT	30
CONNECT	IS	M2	RC	AT	32
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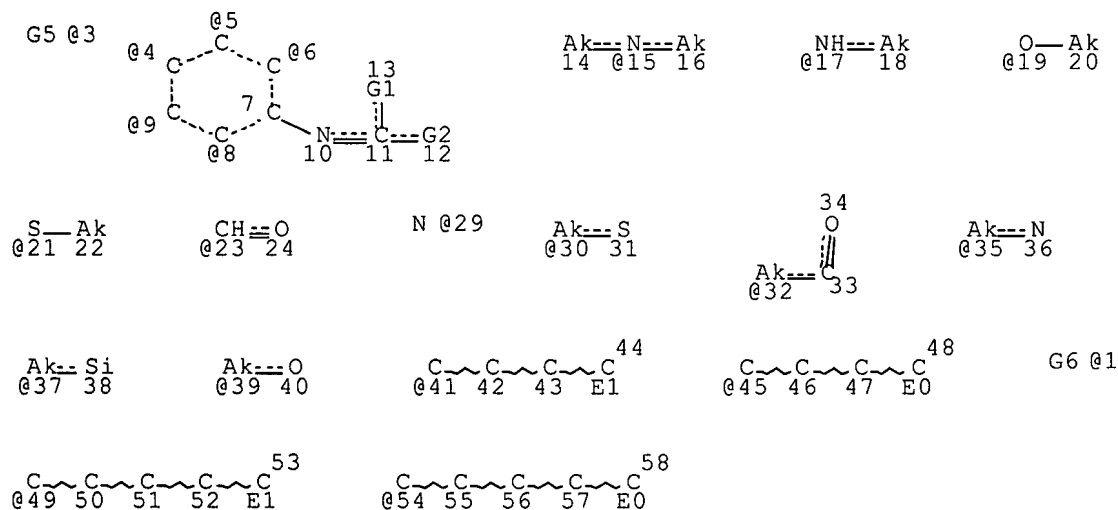
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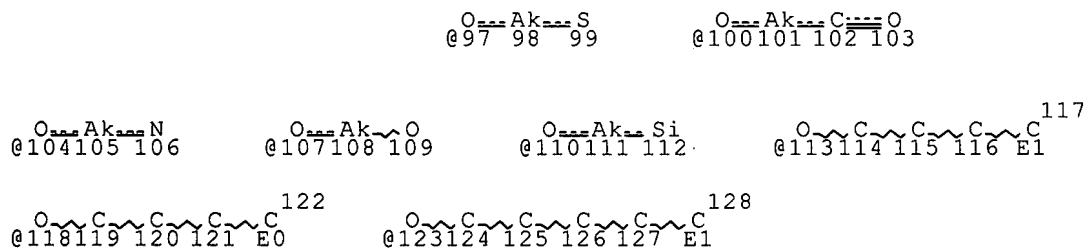
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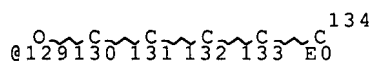
L16 STR



Page 1-A



Page 2-A



Page 3-A

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VAR G2=NH2/15/17/29  
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## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 91

## STEREO ATTRIBUTES: NONE

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 L15 STR  
 L16 STR  
 L18 400 SEA FILE=REGISTRY SUB=L9 SSS FUL ((L15 OR L16))  
 L20 128 SEA FILE=REGISTRY ABB=ON PLU=ON L18 AND ?IMIDAMIDE

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L15 STR  
L16 STR  
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L20 128 SEA FILE=REGISTRY ABB=ON PLU=ON L18 AND ?IMIDAMIDE  
L21 57 SEA FILE=CAPLUS ABB=ON PLU=ON L20

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L21 ANSWER 1 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2007:88339 CAPLUS Full-text  
DOCUMENT NUMBER: 146:178834  
TITLE: Synergistic pesticidal mixtures with  
nitrogen-containing component  
INVENTOR(S): Hughes, David John; Peace, James Edward; Riley,  
Suzanna; Russell, Sally; Swanborough, Joseph John;  
Jeanguenat, Andre; Renold, Peter; Hall, Roger Graham;  
Loiseleur, Olivier; Trah, Stephan; Wenger, Jean  
PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.; Syngenta  
Limited  
SOURCE: PCT Int. Appl., 261pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2007009661	A2	20070125	WO 2006-EP6866	20060713
WO 2007009661	A3	20070329		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

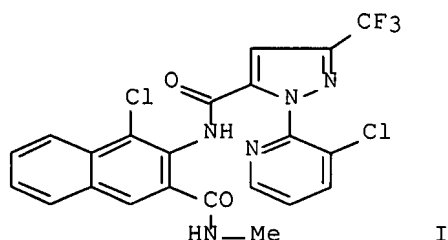
GB 2005-14652

A 20050715

OTHER SOURCE(S): MARPAT 146:178834

ED Entered STN: 26 Jan 2007

GI



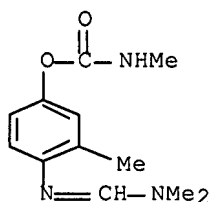
AB Pesticidal compns. comprise mixts. consisting of N-containing compds. (e.g., I) and  $\geq 1$  compound selected from acaricides, anthelmintics, avicides, bactericides, biol. agents, chemosterilants, insect repellents, insecticides, etc. The compns. are applied to pests or their environment for controlling insects or representatives of the order Acarina. Also claimed is plant propagation material treated with such a composition and treatment of the site where the propagation material is planted. Thus, young soybean plants were sprayed with an aqueous emulsion comprising 400 ppm of active ingredient mixture of the invention, populated with 10 *Spodoptera littoralis* caterpillars (in the third stage), then placed in a container. Evaluation after 3 days showed that the mixture exhibited good activity.

IT 17702-57-7D, Formparanate, mixts. containing

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (as synergistic pesticides)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methyamino)carbonyloxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 2 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

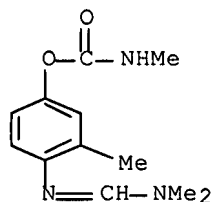
ACCESSION NUMBER: 2007:88149 CAPLUS Full-text

DOCUMENT NUMBER: 146:178833

TITLE: Nonflammable insecticidal foams for treating parasite

infestations  
 INVENTOR(S): Tamarkin, Dov; Friedman, Doron; Eini, Meir  
 PATENT ASSIGNEE(S): Foamix Ltd., Israel  
 SOURCE: U.S. Pat. Appl. Publ., 16pp., Cont.-in-part of U.S.  
 Ser. No. 532,618.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 17  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2007020304	A1	20070125	US 2006-481596	20060706
WO 2004037225	A2	20040506	WO 2003-IB5527	20031024
WO 2004037225	A3	20041229		
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US 2005069566	A1	20050331	US 2004-911367	20040804
US 2006140984	A1	20060629	US 2005-532618	20051222
PRIORITY APPLN. INFO.:				
			IL 2002-152486	A 20021025
			US 2002-429546P	P 20021129
			US 2003-492385P	P 20030804
			WO 2003-IB5527	W 20031024
			US 2004-911367	A2 20040804
			US 2005-696878P	P 20050706
			US 2005-532618	A2 20051222
ED	Entered STN: 26 Jan 2007			
AB	Safe and effective foamable compns. for treating a subject infested with a parasitic arthropod or for preventing infestation include a first insecticide; $\geq 1$ organic carrier selected from a hydrophobic carrier, a polar solvent, an emollient and mixts. thereof at 2-50% by weight; .apprx.0.1-5% by weight of a surface-active agent; .apprx.0.01-5% by weight of $\geq 1$ polymeric agent selected from a bioadhesive agent, a gelling agent, a film-forming agent and a phase change agent; and a liquefied or compressed gas propellant at .apprx.3-25% by weight of the total composition The organic carrier may comprise a second insecticide and(or) a potent solvent. Thus, a foamable insecticide composition containing permethrin (1 %), star anise oil (2.00% weight/weight as second insecticide) and diisopropyl adipate and di-Me isosorbide as potent solvents was safe and effective in the treatment of head lice (Pediculosis capitis) in pediatric patients.			
IT	17702-57-7, Formparanate			
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)			
	(nonflammable insecticidal foams for treating parasite infestations)			
RN	17702-57-7 CAPLUS			
CN	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)			



L21 ANSWER 3 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:1356873 CAPLUS Full-text  
 DOCUMENT NUMBER: 146:76544  
 TITLE: Synergistic fungicide composition comprising a phosphorous acid derivative, a mandelamide type compound and a further fungicide  
 INVENTOR(S): Gouot, Jean-Marie; Latorse, Marie-Pascale  
 PATENT ASSIGNEE(S): Bayer Cropscience SA, Fr.  
 SOURCE: PCT Int. Appl., 39pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006136551	A1	20061228	WO 2006-EP63349	20060620
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PRIORITY APPLN. INFO.: EP 2005-356110 A 20050621

OTHER SOURCE(S): MARPAT 146:76544

ED Entered STN: 29 Dec 2006

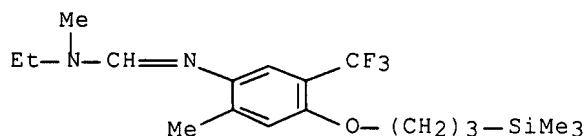
AB Synergistic fungicide compns. comprise a phosphorous acid derivative (phosphonate or phosphite derivative), a mandelamide type like mandipropamid and a further fungicide. In addition, such combinations have a broad spectrum of activity.

IT **870765-96-1D**, mixts. with phosphorous acid derivative and mandipropamid

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (synergistic fungicidal compns.)

RN 870765-96-1 CAPLUS

CN Methanimidamide, N-ethyl-N-methyl-N'-[2-methyl-5-(trifluoromethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (CA INDEX NAME)

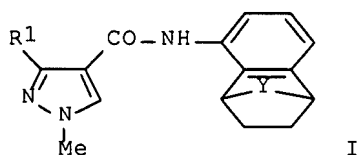


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:343598 CAPLUS Full-text  
 DOCUMENT NUMBER: 144:364543  
 TITLE: Synergistic fungicidal compositions comprising pyrazole derivatives  
 INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.  
 SOURCE: PCT Int. Appl., 142 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037632	A1	20060413	WO 2005-EP10755	20051006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: GB 2004-22401 A 20041008  
 OTHER SOURCE(S): MARPAT 144:364543  
 ED Entered STN: 14 Apr 2006  
 GI



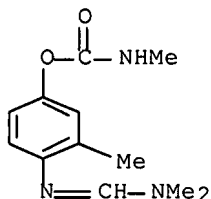


AB Synergistic fungicidal compns. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; Y = CHR2 or C:CH2; R2 = H or alkyl) or a I tautomer and component any of a very large number of known fungicides and insecticides.

IT 17702-57-7D, Formparanate, mixts. with pyrazole derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 5 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:343286 CAPLUS Full-text

DOCUMENT NUMBER: 144:364542

TITLE: Synergistic fungicidal compositions comprising a pyridine derivative

INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrendfreund, Josef; Lamberth, Clemens; Tobler, Hans

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 112 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

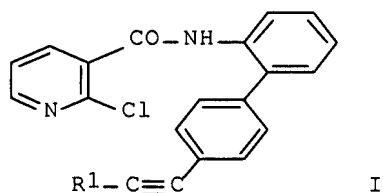
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006037633	A1	20060413	WO 2005-EP10756	20051006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: GB 2004-22399 A 20041008

OTHER SOURCE(S): MARPAT 144:364542

ED Entered STN: 14 Apr 2006

GI

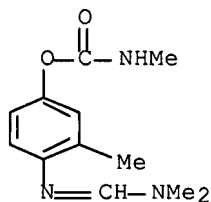


AB A method of controlling phytopathogenic diseases on useful plants or on plant propagation material comprises applying a pyridine derivative I (R1 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer, in a mixts. with any of a very large number of known fungicides and/or insecticides.

IT 17702-57-7D, Formparanate, mixts. with pyridine derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal comps.)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methyamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:342999 CAPLUS Full-text

DOCUMENT NUMBER: 144:364541

TITLE: Synergistic fungicidal compositions comprising a pyrazole derivative

INVENTOR(S): Walter, Harald; Corsi, Camilla; Ehrenfreund, Josef; Lamberth, Clemens; Tobler, Hans

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 139 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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 WO 2006037634      A1      20060413      WO 2005-EP10757      20051006  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,  
 LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ,  
 NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,  
 SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,  
 YU, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

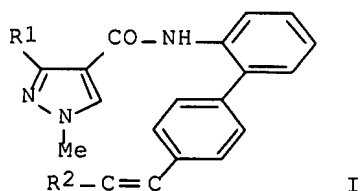
GB 2004-22400

A 20041008

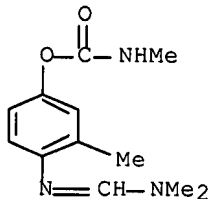
OTHER SOURCE(S):      MARPAT 144:364541

ED Entered STN: 14 Apr 2006

GI



- AB Synergistic fungicidal compns. comprise a pyrazole derivative I (R1 = difluoromethyl or trifluoromethyl; R2 = alkyl, alkoxyalkyl or haloalkyl) or a I tautomer and any of a very large number of known fungicides and/or insecticides.
- IT 17702-57-7D, Formparanate, mixts. with pyrazole derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)
- RN 17702-57-7 CAPLUS
- CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



REFERENCE COUNT:

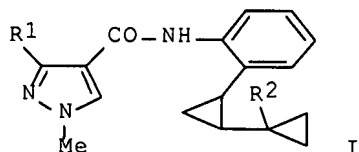
9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 7 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2006:151202 CAPLUS Full-text  
 DOCUMENT NUMBER: 144:207363  
 TITLE: Synergistic fungicidal compositions comprising  
 pyrazole derivatives  
 INVENTOR(S): Walter, Harald; Neuenschwander, Urs; Zeun, Ronald;  
 Ehrenfreund, Josef; Tobler, Hans; Corsi, Camilla;  
 Lamberth, Clemens  
 PATENT ASSIGNEE(S): Syngenta Participations AG, Switz.  
 SOURCE: PCT Int. Appl., 104 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

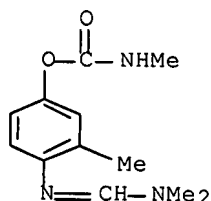
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006015865	A1	20060216	WO 2005-EP8748	20050811
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM AU 2005270319 A1 20060216 AU 2005-270319 20050811 CA 2573661 A1 20060216 CA 2005-2573661 20050811 EP 1778013 A1 20070502 EP 2005-791052 20050811 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BA, HR, MK, YU PRIORITY APPLN. INFO.: GB 2004-18047 A 20040812 WO 2005-EP8748 W 20050811				

OTHER SOURCE(S): MARPAT 144:207363  
 ED Entered STN: 17 Feb 2006  
 GI



AB Synergistic fungicidal compns. comprise the pyrazole derivs. I (R1 = CF3 or CHF2; H or Me) or I tautomers and one of a very large number of known fungicides.

IT 17702-57-7D, Formparanate, mixts. with pyrazole derivs.  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (synergistic fungicidal compns.)  
 RN 17702-57-7 CAPLUS  
 CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]p  
 henyl]- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 8 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:20543 CAPLUS Full-text

DOCUMENT NUMBER: 144:292702

TITLE: Discovery of Novel and Potent Thiazoloquinazolines as  
 Selective Aurora A and B Kinase Inhibitors

AUTHOR(S): Jung, Frederic H.; Pasquet, Georges; Van der Brempt,  
 Christine Lambert; Lohmann, Jean-Jacques M.; Warin,  
 Nicolas; Renaud, Fabrice; Germain, Herve; De Savi,  
 Chris; Roberts, Nicola; Johnson, Trevor; Dousson,  
 Cyril; Hill, George B.; Mortlock, Andrew A.; Heron,  
 Nicola; Wilkinson, Robert W.; Wedge, Stephen R.;  
 Heaton, Simon P.; Odedra, Rajesh; Keen, Nicholas J.;  
 Green, Stephen; Brown, Elaine; Thompson, Katherine;  
 Brightwell, Stephen

CORPORATE SOURCE: Centre de Recherches, AstraZeneca, Reims, 51689, Fr.  
 SOURCE: Journal of Medicinal Chemistry (2006), 49(3), 955-970  
 CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:292702

ED Entered STN: 10 Jan 2006

AB The synthesis of a novel series of quinazolines substituted at C4 by five-  
 membered ring aminoheterocycles is reported. Their in vitro structure-  
 activity relationships vs. Aurora A and B serine-threonine kinases is  
 discussed. Our results demonstrate that quinazolines with a substituted  
 aminothiazole at C4 possess potent Aurora A and B inhibitory activity and  
 excellent selectivity against a panel of various serine-threonine and tyrosine  
 kinases, as exemplified by N-(3-fluorophenyl)-2-[2-[[7-[3-[4-  
 (hydroxymethyl)piperidin-1-yl]propoxy]-6- methoxy-quinazolinyl]amino]-1,3-  
 thiazol-5-yl]acetamide (I). It was found also that the position and nature of  
 the substituent on the thiazole play key roles in cellular potency. Compds.  
 with an acetanilide substituent at C5' have the greatest cellular activity.  
 The importance of the C5' position for substitution has been rationalized by  
 ab initio MO calcns. Results show that the planar conformation with the sulfur  
 of the thiazole next to the quinazoline N-3 is strongly favored over the other  
 possible planar conformation. I is a potent suppressor of the expression of

phospho-histone H3 in tumor cells in vitro as well as in vivo, where I, administered as its phosphate prodrug suppresses the expression of phospho-histone H3 in s.c. implanted tumors in nude mice.

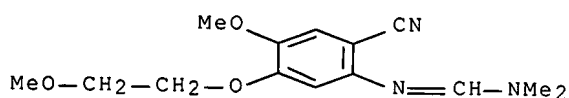
IT 870959-52-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(heterocyclization of (aminomethyleneamino)benzonitrile derivative in preparation of (aminoalkoxy)[(heterocyclic)amino]quinazolines as inhibitors of aurora A and B kinase)

RN 870959-52-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 9 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1329784 CAPLUS Full-text

DOCUMENT NUMBER: 144:46617

TITLE: Fungicidal mixtures of amidinylphenyl compounds

INVENTOR(S): Klapproth, Michael Caldwell; Tseng, Chi-Ping

PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005120234	A2	20051222	WO 2005-US19376	20050601
WO 2005120234	A3	20061005		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2005251750	A1	20051222	AU 2005-251750	20050601
CA 2564813	A1	20051222	CA 2005-2564813	20050601
EP 1750508	A2	20070214	EP 2005-757307	20050601
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU			

PRIORITY APPLN. INFO.:

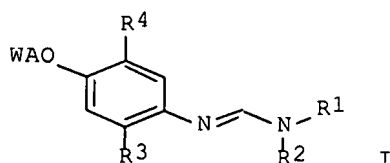
US 2004-576780P

P 20040603

OTHER SOURCE(S): MARPAT 144:46617  
 ED Entered STN: 22 Dec 2005  
 GI

WO 2005-US19376

W 20050601



AB Disclosed are fungicidal mixts. comprising phenylamidines (a) I [R1 = alkyl; R2 = alkyl or cyclopropyl; R3 H, alkyl or halo; R4 = alkyl, haloalkyl, methoxy, etc.; A = (methyl)alkylene; W= CR5R6R7 or SiR8R9R10; R5 = H or (halo)alkyl; R6-10 = (halo)alkyl], I N-oxides or I salts and (b) at least one compound selected from alkylenebis(dithiocarbamate) fungicides, compds. acting at the bcl complex of the fungal mitochondrial respiratory electron transfer site, cymoxanil, compds. acting at the demethylase enzyme of the sterol biosynthesis pathway, morpholine and piperidine compds. that act on the sterol biosynthesis pathway, phenylamide fungicides, pyrimidinone fungicides, chlorothalonil, carboxamides acting at complex II of the fungal mitochondrial respiratory electron transfer site, quinoxifen, metrafenone, cyflufenamid, cyprodinil, copper compds., phthalimide fungicides, fosetyl-aluminum, benzimidazole fungicides, cyazofamid, fluazinam, iprovalicarb, propamocarb, validamycin, dichlorophenyl dicarboximide fungicides, zoxamide and dimethomorph, and their salts.

IT 870765-97-2 870765-99-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (fungicidal composition)

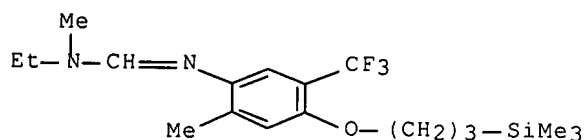
RN 870765-97-2 CAPLUS

CN Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with N-ethyl-N-methyl-N'-[2-methyl-5-(trifluoromethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]methanimidamide (9CI) (CA INDEX NAME)

CM 1

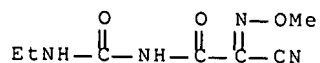
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CMF C18 H29 F3 N2 O Si



CM 2

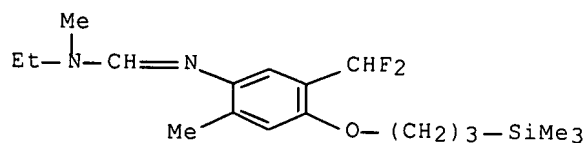
CRN 57966-95-7  
CMF C7 H10 N4 O3



RN 870765-99-4 CAPLUS  
CN Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with  
N'-[5-(difluoromethyl)-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methylmethanimidamide (9CI) (CA INDEX NAME)

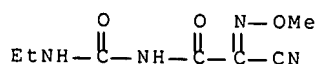
CM 1

CRN 870765-98-3  
CMF C18 H30 F2 N2 O Si



CM 2

CRN 57966-95-7  
CMF C7 H10 N4 O3



L21 ANSWER 10 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2005:1292167 CAPLUS Full-text  
DOCUMENT NUMBER: 144:36369  
TITLE: Preparation of quinone substituted quinazoline and  
quinoline kinase inhibitors for treatment of  
angiogenesis-related diseases  
INVENTOR(S): Floyd, Middleton B., Jr.; Nittoli, Thomas; Wissner,  
Allan; Dushin, Russell George; Nilakantan, Ramaswamy;  
Ingalls, Charles; Fraser, Heidi Leigh; Johnson,  
Bernard Dean  
PATENT ASSIGNEE(S): Wyeth, USA  
SOURCE: PCT Int. Appl., 195 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent



LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115145	A2	20051208	WO 2005-US16800	20050511
WO 2005115145	A3	20060223		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

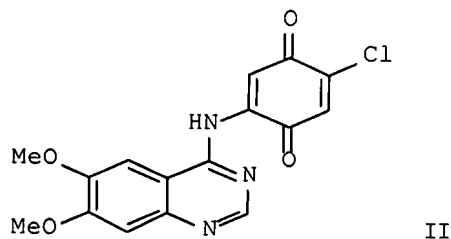
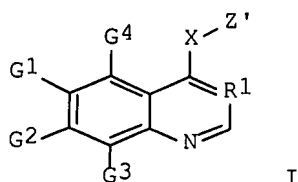
PRIORITY APPLN. INFO.:

US 2004-573251P P 20040520

OTHER SOURCE(S): MARPAT 144:36369

ED Entered STN: 09 Dec 2005

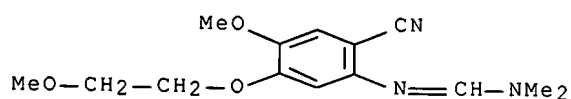
GI



AB Title compds. I [R1 = N, C-CN, CH, C-F, C-Cl, C,Br, C-I; G1-G4 = independently H, halo, alk(en/yn)yl, alkylsulfinyl, NH2 and derivs., etc., with the proviso that G3 or G4 are not -NH-R2; R2 = -CO-C.tplbond.C-R3, -CO-(R3)C:C(R3)2, etc.; R3 = independently H, alkyl, Ph, carboxy, etc.; X = NH, O, S, etc.; Z' = (un)substituted 1,4-benzoquinone, 1,4-naphthoquinone, 7-oxabicyclo[4.1.0]hept-3-ene-2,5-dione; and their pharmaceutically acceptable salts] were prepared as protein kinases, particularly protein tyrosine kinases, inhibitors. I are useful for treatment of diseases that are characterized, at least in part, by excessive, abnormal, or inappropriate angiogenesis, such as cancer, diabetic retinopathy, macular degeneration and rheumatoid arthritis. I inhibit angiogenesis by inhibiting a tyrosine kinase receptor enzyme, specifically

KDR, and binding to the KDR in an irreversible manner. For example, reacting 2-amino-4,5-dimethoxybenzonitrile with DMF di-Me acetal, refluxing of amidine with 4-chloro-2,5-dimethoxyaniline and oxidation of dimethoxy intermediate with ceric ammonium nitrate gave quinazoline II. Quinazoline II (100 nM concentration) gave 83% inhibition of KDR kinase activity. Selected I were effective inhibitors of VEGF-dependent growth factor of HUVEC cells.

IT 870959-52-7P, N'-[2-Cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethylformamide  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of quinone substituted quinazoline and quinoline kinase inhibitors for treatment of angiogenesis-related diseases)  
 RN 870959-52-7 CAPLUS  
 CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L21 ANSWER 11 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1168543 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 144:88235

TITLE: 2-(Quinazolin-4-ylamino)-[1,4]benzoquinones as Covalent-Binding, Irreversible Inhibitors of the Kinase Domain of Vascular Endothelial Growth Factor Receptor-2

AUTHOR(S): Wissner, Allan; Floyd, M. Brawner; Johnson, Bernard D.; Fraser, Heidi; Ingalls, Charles; Nittoli, Thomas; Dushin, Russell G.; Discafani, Carolyn; Nilakantan, Ramaswamy; Marini, Joseph; Ravi, Malini; Cheung, Kinwang; Tan, Xingzhi; Musto, Sylvia; Annable, Tami; Siegel, Marshall M.; Loganzo, Frank

CORPORATE SOURCE: Chemical and Screening Sciences and Oncology Research, Wyeth Research, Pearl River, NY, 10965, USA

SOURCE: Journal of Medicinal Chemistry (2005), 48(24), 7560-7581

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:88235

ED Entered STN: 03 Nov 2005

AB A series of 2-(quinazolin-4-ylamino)-[1,4]benzoquinone derivs. that function as potent covalent-binding, irreversible inhibitors of the kinase domain of vascular endothelial growth factor receptor-2 (VEGFR-2) has been prepared by ceric ammonium nitrate oxidation of substituted (2,5-dimethoxyphenyl)(6,7-disubstituted-quinazolin-4-yl)amines and by displacement of the chlorine atom of substituted 2-chloro-5-(6,7-disubstituted-quinazolin-4-ylamino)-[1,4]benzoquinones with various amines, anilines, phenols, and alcs. Enzyme studies were conducted in the absence and presence of glutathione and plasma. Several of the compds. inhibit VEGF-stimulated autophosphorylation in intact cells. Kinetic expts. were performed to study the reactivity of selected inhibitors toward glutathione. Reactivities correlated with LUMO energies calculated as avs. of those of individual conformers weighted by the Boltzmann

distribution. These results and mol. modeling were used to rationalize the biol. observations. The compds. behave as non-ATP-competitive inhibitors. Unequivocal evidence, from mass spectral studies, indicates that these inhibitors form a covalent interaction with Cys-1045. One member of this series displays antitumor activity in an in vivo model.

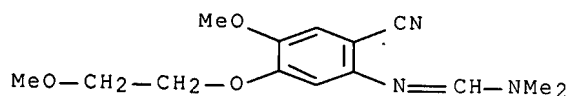
IT 870959-52-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 2-(quinazolin-4-ylamino)-[1,4]benzoquinones as covalent-binding, irreversible inhibitors of the kinase domain of VEGFR-2)

RN 870959-52-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-4-methoxy-5-(2-methoxyethoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 12 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:471844 CAPLUS Full-text

DOCUMENT NUMBER: 143:28318

TITLE: Micronized wood preservative formulations

INVENTOR(S): Leach, Robert M.; Zhang, Jun

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S. Ser. No. 821,326.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005118280	A1	20050602	US 2004-970446	20041021
US 2004258767	A1	20041223	US 2004-821326	20040409
WO 2006047126	A2	20060504	WO 2005-US37303	20051018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006257578	A1	20061116	US 2006-354726	20060215
PRIORITY APPLN. INFO.:			US 2003-461547P	P 20030409
			US 2003-518994P	P 20031111

US 2004-821326	A2 20040409
US 2004-568485P	P 20040506
US 2004-565585P	P 20040427
US 2004-570659P	P 20040513
US 2004-970446	A 20041021
US 2005-126839	A2 20050511

ED Entered STN: 03 Jun 2005

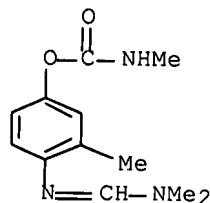
AB The wood preservative compns. comprising micronized particles. The composition comprises dispersions of micronized metal or metal compds. The wood preservative composition comprises an inorg. component comprising a metal or metal compound and organic biocide. When the composition comprises an inorg. component and an organic biocide, the inorg. component or the organic biocide or both are present as micronized particles. When used for preservation of wood, the micronized particles can be observed as uniformly distributed within the wood and there is minimal leaching of the metal and biocide from the wood.

IT 17702-57-7, Formparanate

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)  
(micronized wood preservative formulations comprising inorg. metal compds. and organic biocides)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 13 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:141200 CAPLUS Full-text

DOCUMENT NUMBER: 142:254568

TITLE: Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor agents

INVENTOR(S): Windsor, J. Brian; Roux, Stan J.; Lloyd, Alan M.; Thomas, Collin E.

PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA

SOURCE: PCT Int. Appl., 243 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005014777	A2	20050217	WO 2003-US32667	20031016
WO 2005014777	A3	20050915		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2502148	A1	20050217	CA 2003-2502148	20031016
AU 2003304398	A1	20050225	AU 2003-304398	20031016
EP 1576150	A2	20050921	EP 2003-816736	20031016
EP 1576150	A3	20051102		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

US 2006276339	A1	20061207	US 2006-531744	20060123
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PRIORITY APPLN. INFO.: US 2002-418803P P 20021016  
WO 2003-US32667 W 20031016

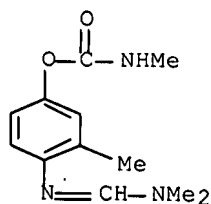
ED Entered STN: 18 Feb 2005

AB The invention provides methods and compns. for modulating the sensitivity of cells to cytotoxic compds. and other active agents. In accordance with the invention, compns. are provided comprising combinations of ectophosphatase inhibitors and active agents. Active agents include antibiotics, fungicides, herbicides, insecticides, chemotherapeutic agents, and plant growth regulators. By increasing the efficacy of active agents, the invention allows use of compns. with lowered concns. of active ingredients.

IT 17702-57-7  
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(methods and compns. for increasing efficacy of biol. active ingredients such as antitumor agents)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 14 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:486399 CAPLUS Full-text

DOCUMENT NUMBER: 141:54353

TITLE: Pharmaceutical compositions comprising a surfactant and a physiologically tolerable water-soluble acid respectively base, and a basic respectively acidic drug compound, containing a pyrimidine unit, for treating HIV

INVENTOR(S): Vandecruys, Roger Petrus Gerebern

PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.

SOURCE: PCT Int. Appl., 138 pp.

DOCUMENT TYPE: CODEN: PIXXD2  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050068	A1	20040617	WO 2002-EP13558	20021129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002350719	A1	20040623	AU 2002-350719	20021129
CA 2505742	A1	20040617	CA 2003-2505742	20031125
WO 2004050058	A2	20040617	WO 2003-EP50890	20031125
WO 2004050058	A3	20040930		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003294038	A1	20040623	AU 2003-294038	20031125
EP 1567134	A2	20050831	EP 2003-789453	20031125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003016532	A	20051004	BR 2003-16532	20031125
CN 1720027	A	20060111	CN 2003-80104619	20031125
JP 2006514635	T	20060511	JP 2004-556332	20031125
IN 2005DN02185	A	20070302	IN 2005-DN2185	20050524
US 2006078609	A1	20060413	US 2005-536542	20050526
NO 2005003143	A	20050627	NO 2005-3143	20050627
PRIORITY APPLN. INFO.:			WO 2002-EP13558	A 20021129
			WO 2003-EP50890	W 20031125
ED Entered STN: 17 Jun 2004				
GI				

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The invention provides a novel pharmaceutical composition for treating HIV comprising a basic resp. acidic drug compound I, a surfactant and a physiol. tolerable water-soluble acid resp. base in which the acid resp. base:drug compound ratio is at least 1:1 by weight [wherein X = O, NH; Y = NH, NMe; R1 = Me, H; R2 = Me, Cl, Br, OMe, 2-furanyl, etc.; R3 = H, 2-benzofuranyl, 1-naphthalenyl, (un)substituted Ph, CH2CH2CN, CH:CHCN, etc.; R4 = H, NO2, NH2, etc.; their N-oxides, pharmaceutically acceptable addition salts, quaternary

amines, or stereochem. isomeric forms]. Ten pharmaceutical compns. are given. Thus, amination of 4-[(4-chloro-2-pyrimidinyl)amino]benzonitrile (preparation given) with amine II (preparation given) in the presence of K<sub>2</sub>CO<sub>3</sub>/CH<sub>2</sub>Cl<sub>2</sub>/MeOH at 150° for 1 h gave the title compound III. Selected I displayed pIC<sub>50</sub> values in the range 8.0-9.5 for the inhibition of the HIV-induced cytopathic effect.

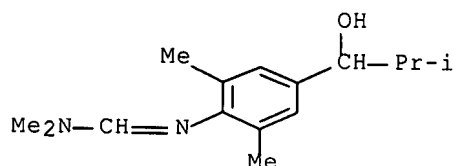
IT 500293-01-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of pyrimidine-based anti-HIV agents and their pharmaceutical compns.)

RN 500293-01-6 CAPLUS

CN Methanimidamide, N'-[4-(1-hydroxy-2-methylpropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 15 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:892742 CAPLUS Full-text

DOCUMENT NUMBER: 139:381249

TITLE: Preparation of amidinylphenyl compounds and their use as fungicides

INVENTOR(S): Tseng, Chi-Ping

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

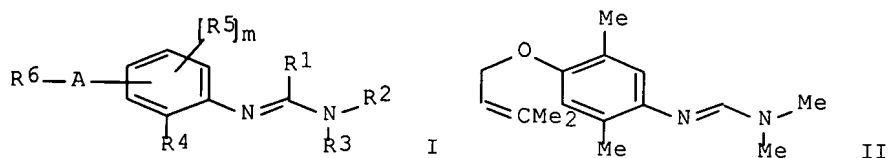
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003093224	A1	20031113	WO 2003-US13371	20030430
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003241327	A1	20031117	AU 2003-241327	20030430
EP 1501789	A1	20050202	EP 2003-731059	20030430
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			

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 BR 2003009599 A 20050301 BR 2003-9599 20030430  
 CN 1649833 A 20050803 CN 2003-809514 20030430  
 JP 2005524706 T 20050818 JP 2004-501364 20030430  
 US 2005182025 A1 20050818 US 2003-510083 20030430  
 PRIORITY APPLN. INFO.: US 2002-380095P P 20020503  
 WO 2003-US13371 W 20030430  
 OTHER SOURCE(S): MARPAT 139:381249  
 ED Entered STN: 14 Nov 2003  
 GI



AB The title compds. [I; R1 = H, OH, SH, SO<sub>3</sub>H, CN, etc.; R2 = H, CN, alkyl, carbocyclyl, etc.; R3 = H, alkyl, alkenyl, etc.; or NR<sub>2</sub>R<sub>3</sub> = (un)substituted 3-7 membered heterocyclyl containing one or two addnl. heteroatoms; R4, R5 = alkyl, alkenyl, haloalkyl, etc.; R6 = C<sub>5</sub>-C<sub>21</sub> alkyl, C<sub>5</sub>-C<sub>21</sub> alkenyl, C<sub>5</sub>-C<sub>21</sub> alkynyl, C<sub>4</sub>-C<sub>9</sub> alkoxy carbonyl, C<sub>4</sub>-C<sub>6</sub> alkylaminocarbonyl, C<sub>3</sub>-C<sub>10</sub> dialkylaminocarbonyl or C<sub>3</sub>-C<sub>12</sub> trialkylsilyl, each optionally substituted; or R6 = C<sub>1</sub>-C<sub>4</sub> alkyl or C<sub>2</sub>-C<sub>9</sub> alkylcarbonyl, each substituted with one or more R<sub>12</sub>; A = a direct bond, O, SO<sub>n</sub>, or NR<sub>10</sub>; n = 0-2; m = 0-3; R<sub>10</sub> = H, alkyl, alkenyl, etc.; R<sub>12</sub> = CO<sub>2</sub>H, CONH<sub>2</sub>, NO<sub>2</sub>, etc.], useful for controlling plant diseases caused by fungal plant pathogens, were prepared. Thus, treating N'-(4-hydroxy-2,5-dimethylphenyl)-N,N-dimethylmethanimidamide with NaH in THF followed by addition of 4-bromo-2-methyl-2-butene afforded II which showed 100% control of *Puccinia recondita* (the causal agent of wheat leaf rust) at 500 g/ha.

IT 623159-78-4P 623159-79-5P 623159-80-8P  
 623159-81-9P 623159-83-1P 623159-85-3P  
 623159-87-5P 623160-00-9P 623160-01-0P  
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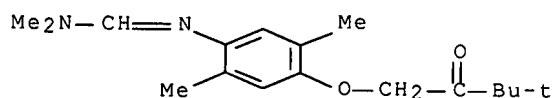
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 623161-69-3P 623161-71-7P 623161-72-8P  
 623161-73-9P 623161-74-0P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amidinylphenyl compds. and their use as fungicides)

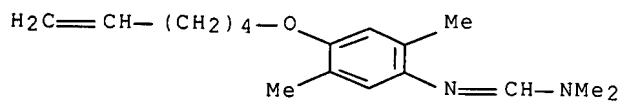
RN 623159-78-4 CAPLUS

CN Methanimidamide, N'-[4-(3,3-dimethyl-2-oxobutoxy)-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



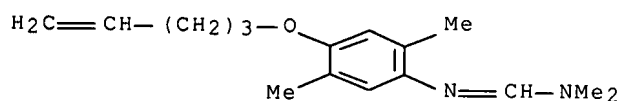
RN 623159-79-5 CAPLUS

CN Methanimidamide, N'-[4-(5-hexenyloxy)-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



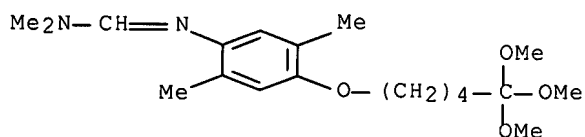
RN 623159-80-8 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-(4-pentenylloxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

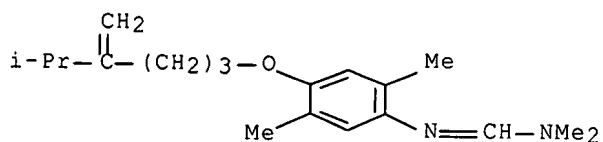


RN 623159-81-9 CAPLUS

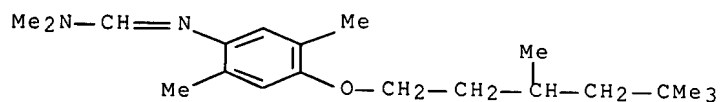
CN Methanimidamide, N'-[2,5-dimethyl-4-[(5,5,5-trimethoxypentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



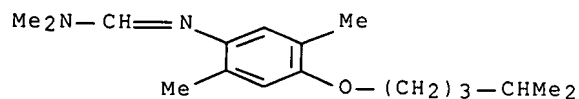
RN 623159-83-1 CAPLUS  
 CN Methanimidamide, N'-[2,5-dimethyl-4-[(5-methyl-4-methylenehexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



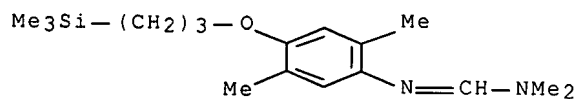
RN 623159-85-3 CAPLUS  
 CN Methanimidamide, N'-[2,5-dimethyl-4-[(3,5,5-trimethylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



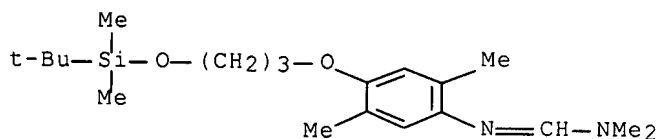
RN 623159-87-5 CAPLUS  
 CN Methanimidamide, N'-[2,5-dimethyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 623160-00-9 CAPLUS  
 CN Methanimidamide, N'-[2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

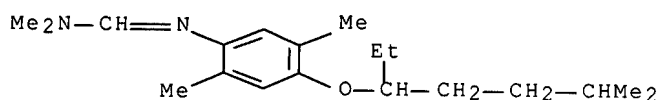


RN 623160-01-0 CAPLUS  
 CN Methanimidamide, N'-[4-[3-[[1,1-dimethylethyl]dimethylsilyl]oxy]propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



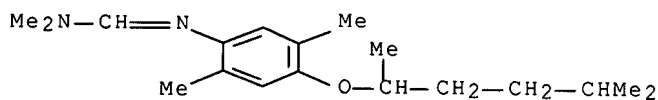
RN 623160-05-4 CAPLUS

CN Methanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



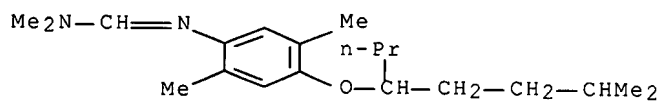
RN 623160-06-5 CAPLUS

CN Methanimidamide, N'-[4-[(1,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



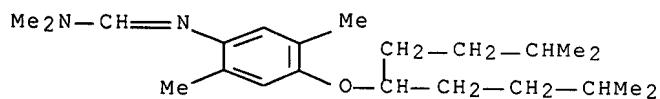
RN 623160-07-6 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-[(4-methyl-1-propylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 623160-09-8 CAPLUS

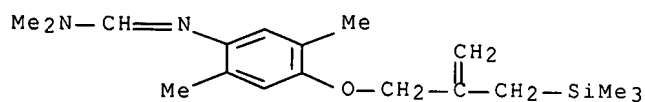
CN Methanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 623160-12-3 CAPLUS

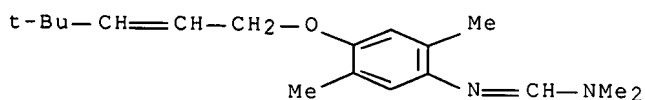
CN Methanimidamide, N'-[2,5-dimethyl-4-[[2-[(trimethylsilyl)methyl]-2-

propenyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



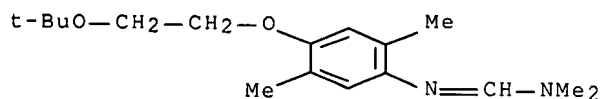
RN 623160-13-4 CAPLUS

CN Methanimidamide, N'-[4-[(4,4-dimethyl-2-pentenyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



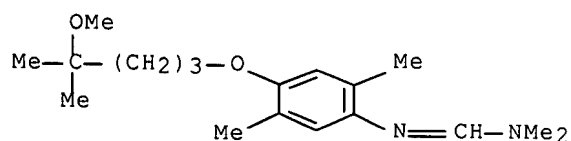
RN 623160-14-5 CAPLUS

CN Methanimidamide, N'-[4-[2-(1,1-dimethylethoxy)ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



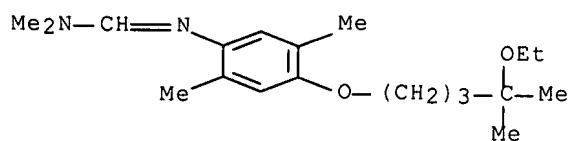
RN 623160-15-6 CAPLUS

CN Methanimidamide, N'-[4-(4-methoxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



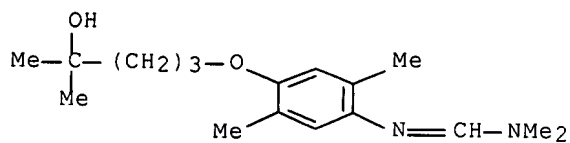
RN 623160-16-7 CAPLUS

CN Methanimidamide, N'-[4-(4-ethoxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



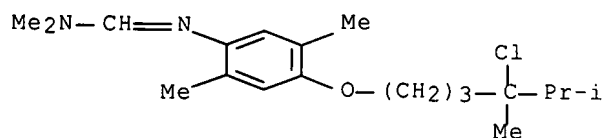
RN 623160-17-8 CAPLUS

CN Methanimidamide, N'-[4-[(4-hydroxy-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



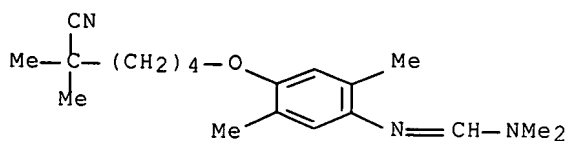
RN 623160-18-9 CAPLUS

CN Methanimidamide, N'-[4-[(4-chloro-4,5-dimethylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



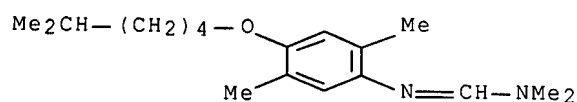
RN 623160-19-0 CAPLUS

CN Methanimidamide, N'-[4-[(5-cyano-5-methylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



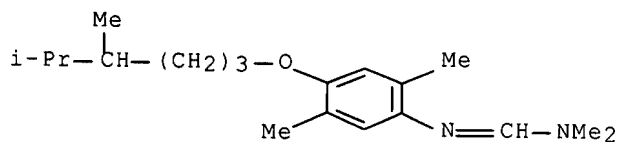
RN 623160-20-3 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-[(5-methylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



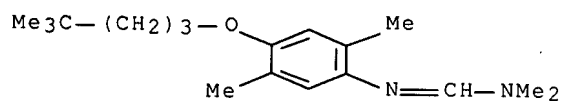
RN 623160-21-4 CAPLUS

CN Methanimidamide, N'-[4-[(4,5-dimethylhexyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



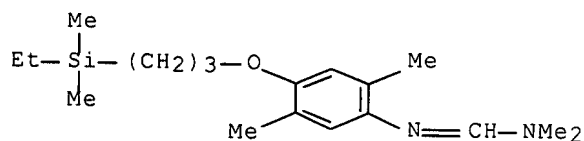
RN 623160-22-5 CAPLUS

CN Methanimidamide, N'-[4-[(4,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



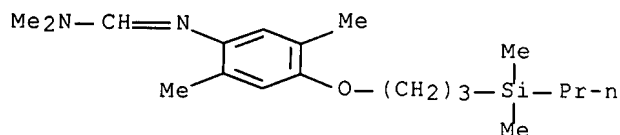
RN 623160-23-6 CAPLUS

CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



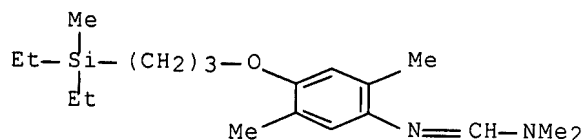
RN 623160-24-7 CAPLUS

CN Methanimidamide, N'-[4-[3-(dimethylpropylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



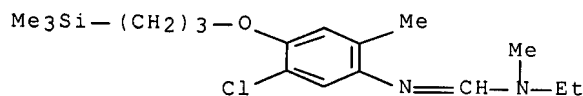
RN 623160-25-8 CAPLUS

CN Methanimidamide, N'-[4-[3-(diethylmethylsilyl)propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



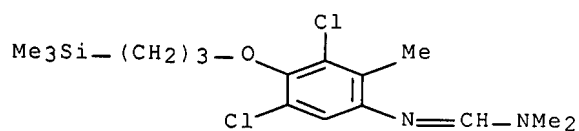
RN 623160-26-9 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



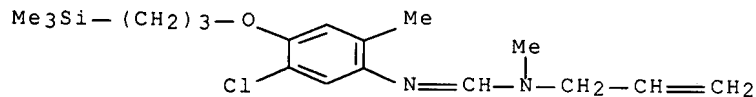
RN 623160-27-0 CAPLUS

CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



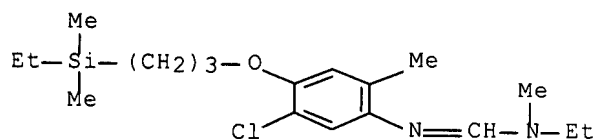
RN 623160-28-1 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



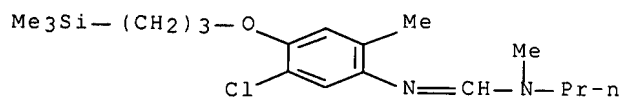
RN 623160-29-2 CAPLUS

CN Methanimidamide, N'-[5-chloro-4-[3-(ethyldimethylsilyl)propoxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



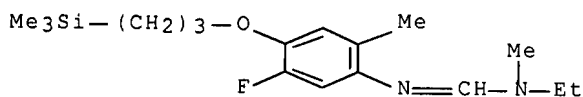
RN 623160-30-5 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



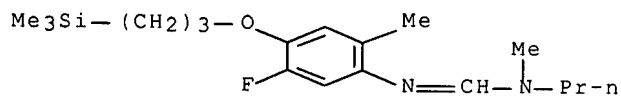
RN 623160-31-6 CAPLUS

CN Methanimidamide, N-ethyl-N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl- (9CI) (CA INDEX NAME)



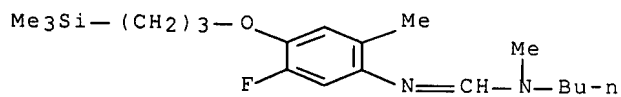
RN 623160-32-7 CAPLUS

CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



RN 623160-34-9 CAPLUS

CN Methanimidamide, N-butyl-N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-methyl- (9CI) (CA INDEX NAME)

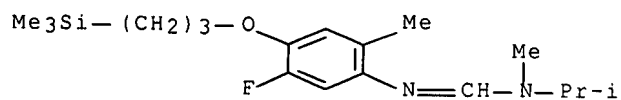


RN 623160-35-0 CAPLUS

CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]

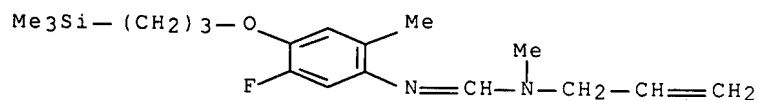


] -N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



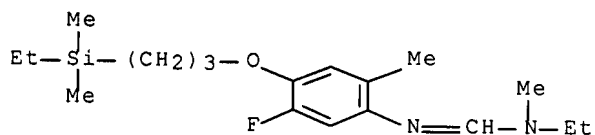
RN 623160-36-1 CAPLUS

CN Methanimidamide, N'-[5-fluoro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]  
]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



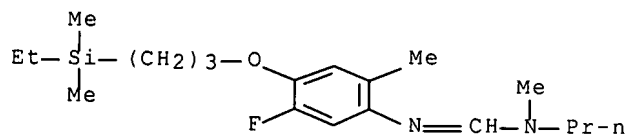
RN 623160-38-3 CAPLUS

CN Methanimidamide, N-ethyl-N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl- (9CI) (CA INDEX NAME)



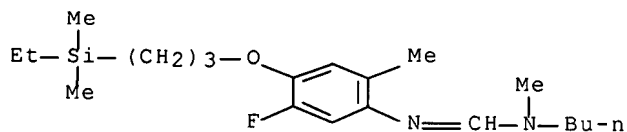
RN 623160-39-4 CAPLUS

CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



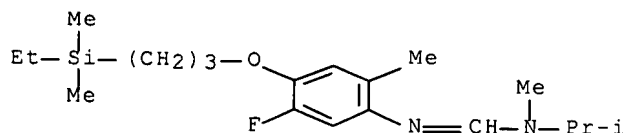
RN 623160-40-7 CAPLUS

CN Methanimidamide, N-butyl-N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl- (9CI) (CA INDEX NAME)



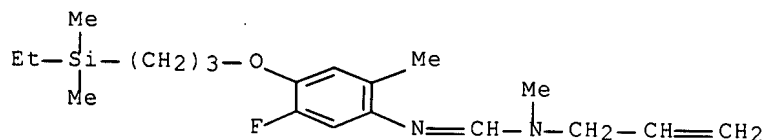
RN 623160-41-8 CAPLUS

CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



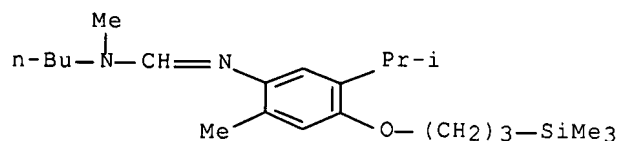
RN 623160-42-9 CAPLUS

CN Methanimidamide, N'-[4-[3-(ethyldimethylsilyl)propoxy]-5-fluoro-2-methylphenyl]-N-methyl-N-2-propenyl- (9CI) (CA INDEX NAME)



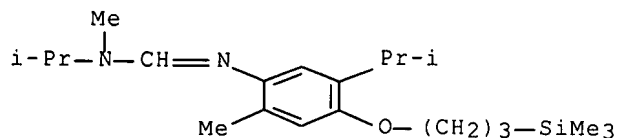
RN 623160-45-2 CAPLUS

CN Methanimidamide, N-butyl-N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 623160-46-3 CAPLUS

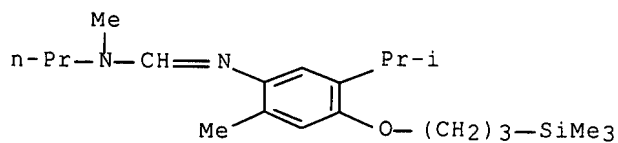
CN Methanimidamide, N-methyl-N-(1-methylethyl)-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)



RN 623160-47-4 CAPLUS

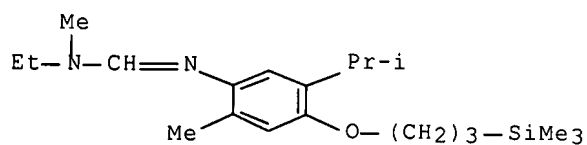
CN Methanimidamide, N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-

(trimethylsilyl)propoxy]phenyl]-N-propyl- (9CI) (CA INDEX NAME)



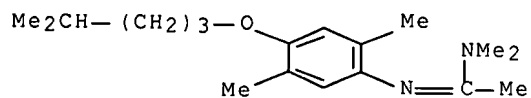
RN 623160-48-5 CAPLUS

CN Methanimidamide, N-ethyl-N-methyl-N'-[2-methyl-5-(1-methylethyl)-4-[3-(trimethylsilyl)propoxy]phenyl]- (9CI) (CA INDEX NAME)



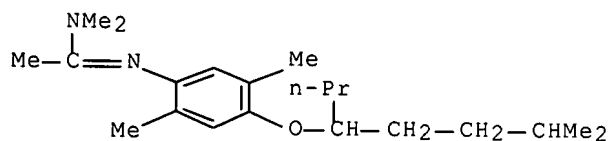
RN 623160-68-9 CAPLUS

CN Ethanimidamide, N'-[2,5-dimethyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



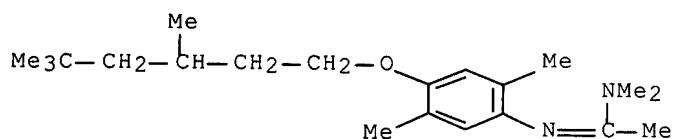
RN 623160-69-0 CAPLUS

CN Ethanimidamide, N'-[2,5-dimethyl-4-[(4-methyl-1-propylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



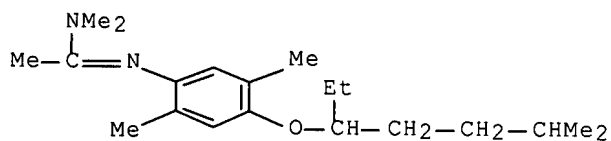
RN 623160-70-3 CAPLUS

CN Ethanimidamide, N'-[2,5-dimethyl-4-[(3,5,5-trimethylhexyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



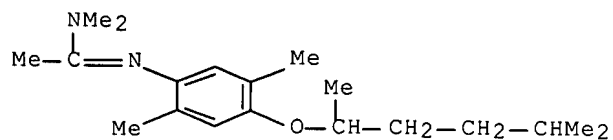
RN 623160-72-5 CAPLUS

CN Ethanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



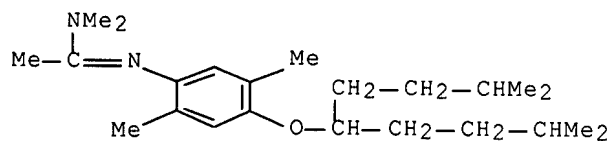
RN 623160-74-7 CAPLUS

CN Ethanimidamide, N'-[4-[(1,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



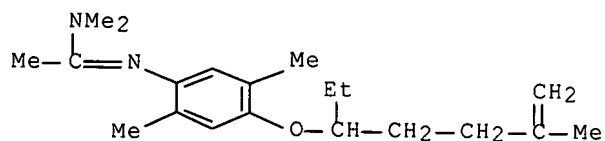
RN 623160-75-8 CAPLUS

CN Ethanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



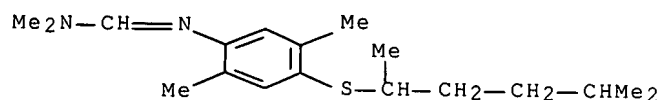
RN 623160-76-9 CAPLUS

CN Ethanimidamide, N'-[4-[(1-ethyl-4-methyl-4-pentenyl)oxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



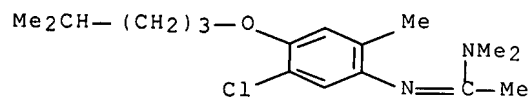
RN 623160-77-0 CAPLUS

CN Methanimidamide, N'-[4-[(1,4-dimethylpentyl)thio]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



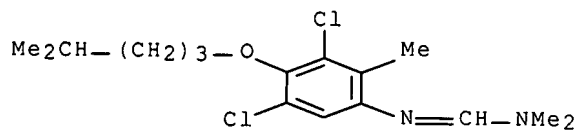
RN 623160-82-7 CAPLUS

CN Ethanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



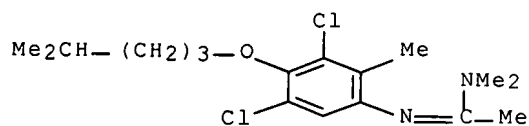
RN 623160-88-3 CAPLUS

CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



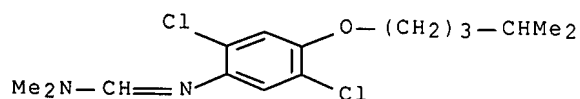
RN 623160-90-7 CAPLUS

CN Ethanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



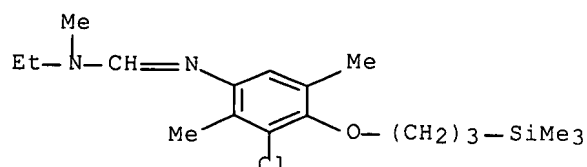
RN 623161-00-2 CAPLUS

CN Methanimidamide, N'-[2,5-dichloro-4-[(4-methylpentyl)oxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



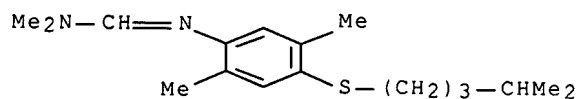
RN 623161-12-6 CAPLUS

CN Methanimidamide, N'-[3-chloro-2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



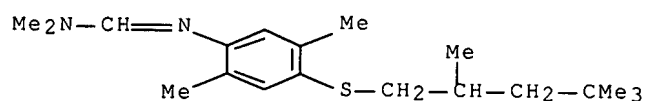
RN 623161-27-3 CAPLUS

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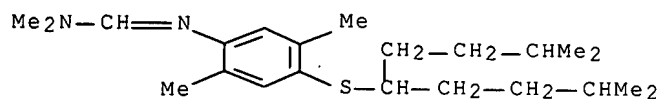
RN 623161-29-5 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-[(2,4,4-trimethylpentyl)thio]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



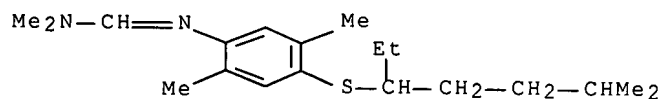
RN 623161-30-8 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-[[4-methyl-1-(3-methylbutyl)pentyl]thio]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



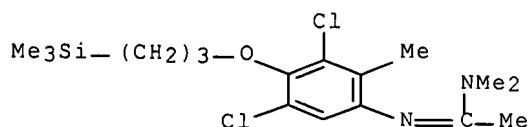
RN 623161-32-0 CAPLUS

CN Methanimidamide, N'-[4-[(1-ethyl-4-methylpentyl)thio]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



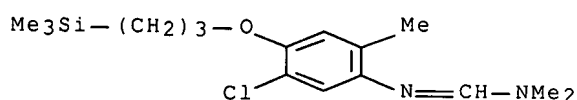
RN 623161-40-0 CAPLUS

CN Ethanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



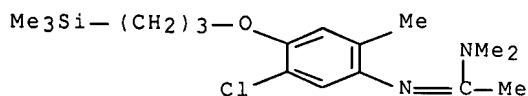
RN 623161-41-1 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



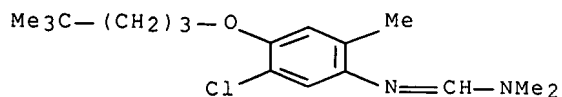
RN 623161-42-2 CAPLUS

CN Ethanimidamide, N'-[5-chloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



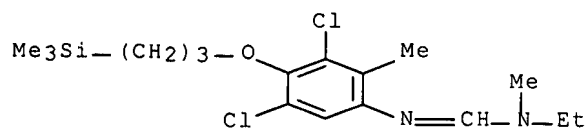
RN 623161-44-4 CAPLUS

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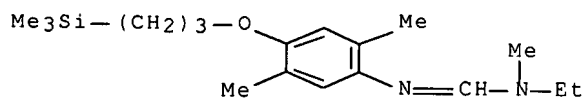
RN 623161-49-9 CAPLUS

CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



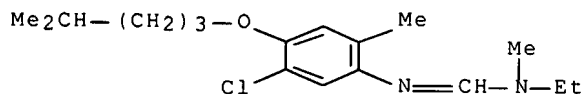
RN 623161-62-6 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-[3-(trimethylsilyl)propoxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



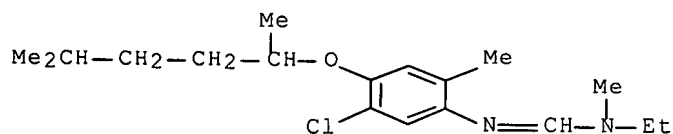
RN 623161-63-7 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



RN 623161-64-8 CAPLUS

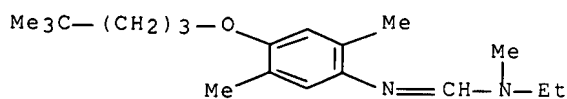
CN Methanimidamide, N'-[5-chloro-4-[(1,4-dimethylpentyl)oxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)





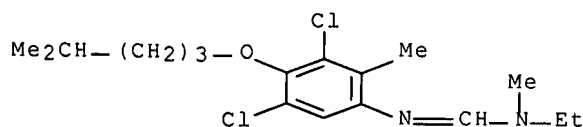
RN 623161-65-9 CAPLUS

CN Methanimidamide, N'-[4-[(4,4-dimethylpentyl)oxy]-2,5-dimethylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



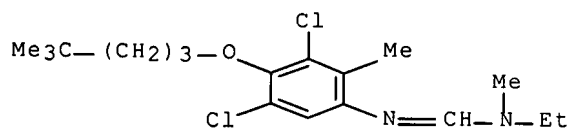
RN 623161-66-0 CAPLUS

CN Methanimidamide, N'-[3,5-dichloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



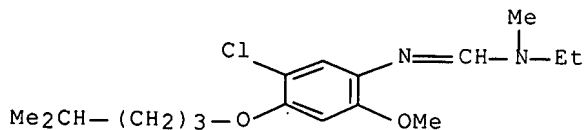
RN 623161-67-1 CAPLUS

CN Methanimidamide, N'-[3,5-dichloro-4-[(4,4-dimethylpentyl)oxy]-2-methylphenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



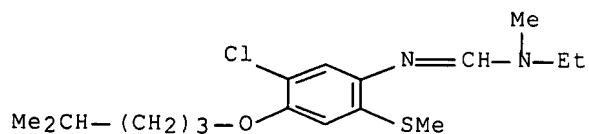
RN 623161-68-2 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methoxy-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



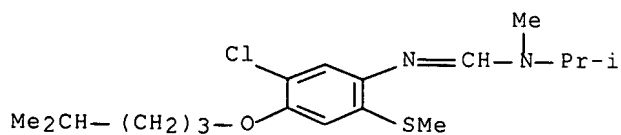
RN 623161-69-3 CAPLUS

CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



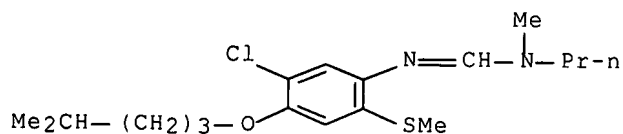
RN 623161-71-7 CAPLUS

CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-methyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



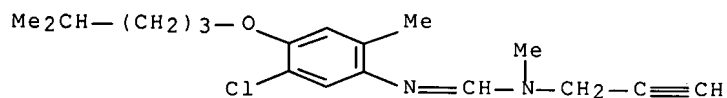
RN 623161-72-8 CAPLUS

CN Methanimidamide, N'-[5-chloro-4-[(4-methylpentyl)oxy]-2-(methylthio)phenyl]-N-methyl-N-propyl- (9CI) (CA INDEX NAME)



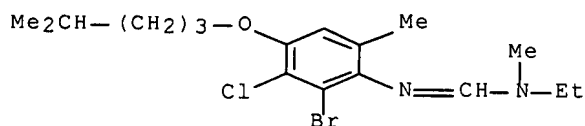
RN 623161-73-9 CAPLUS

CN Methanimidamide, N'-[5-chloro-2-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 623161-74-0 CAPLUS

CN Methanimidamide, N'-[2-bromo-3-chloro-6-methyl-4-[(4-methylpentyl)oxy]phenyl]-N-ethyl-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 16 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:836400 CAPLUS Full-text  
 DOCUMENT NUMBER: 139:318718  
 TITLE: Fiber-supported pesticidal compositions  
 INVENTOR(S): Hoffmann, Michael P.; Gardner, Jeffrey; Curtis, Paul D.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 41 pp.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003198659	A1	20031023	US 2002-281088	20021025
PRIORITY APPLN. INFO.:			US 2001-345349P	P 20011025

ED Entered STN: 24 Oct 2003

AB The invention provides fibrous pest deterrents that combine the useful properties of a phys. barrier in the form of a nonwoven fibrous matrix with a chemical deterrent such as a pesticide, behavior-modifying compound or a pest repellent. The use of such fibrous pest deterrents protects plants, animals and structures in both agricultural and nonagricultural settings from damage inflicted by pests. Unlike traditional pesticides, the behavior-modifying compound, pesticide or chemical deterrent of the invention is adsorbed or attached to a fibrous matrix, and so it is not so readily dispersed into the environment. Hence, use of the fibrous pest deterrents can reduce the levels of pesticides that inadvertently contaminate nontarget areas and pollute water supplies.

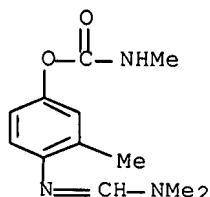
IT 17702-57-7, Formparanate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fiber-supported pesticidal composition)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methyamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



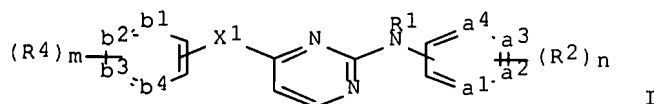
L21 ANSWER 17 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2003:154426 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:205077  
 TITLE: Preparation of pyrimidines as HIV inhibitors.  
 INVENTOR(S): Guillemont, Jerome Emile Georges; Palandjian, Patrice;  
 De Jonge, Marc Rene; Koymans, Lucien Maria Henricus;  
 Vinkers, Hendrik Maarten; Daeyaert, Frederik Frans  
 Desire; Heeres, Jan; Van Aken, Koen Jeanne Alfons;  
 Lewi, Paulus Joannes; Janssen, Paul Adriaan Jan  
 PATENT ASSIGNEE(S): Janssen Pharmaceutica N.V., Belg.  
 SOURCE: PCT Int. Appl., 126 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003016306	A1	20030227	WO 2002-EP8953	20020809
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2452217	A1	20030227	CA 2002-2452217	20020809
AU 2002329238	A1	20030303	AU 2002-329238	20020809
EP 1419152	A1	20040519	EP 2002-764839	20020809
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002011909	A	20040824	BR 2002-11909	20020809
CN 1541215	A	20041027	CN 2002-815920	20020809
HU 200401346	A2	20041228	HU 2004-1346	20020809
JP 2005507380	T	20050317	JP 2003-521229	20020809
NZ 530951	A	20051028	NZ 2002-530951	20020809
US 2004198739	A1	20041007	US 2004-485636	20040203
US 7125879	B2	20061024		
IN 2004DN00265	A	20050401	IN 2004-DN265	20040206
NO 2004000633	A	20040312	NO 2004-633	20040212
ZA 2004001159	A	20050512	ZA 2004-1159	20040212
US 2006111379	A1	20060525	US 2005-219163	20050902
US 2006252764	A1	20061109	US 2006-474855	20060626
PRIORITY APPLN. INFO.:			EP 2001-203090	A 20010813
			EP 2002-77748	A 20020610
			WO 2002-EP8953	W 20020809
			EP 2003-103275	A 20030903
			EP 2003-103319	A 20030908
			EP 2003-103335	A 20030910
			EP 2003-103668	A 20031002
			US 2004-485636	A2 20040203
			MY 2004-3578	A 20040902
			WO 2004-EP52028	A 20040903

OTHER SOURCE(S): MARPAT 138:205077  
 ED Entered STN: 28 Feb 2003  
 GI

EP 2005-101467

A 20050225



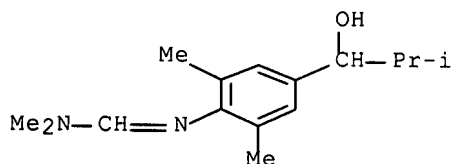
AB Title compds. [I; a1:a2a3:a4, b1:b2b3:b4 = atoms to form Ph, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl rings; n = 0-5; m = 1-4; R1 = H, aryl, CHO, alkylcarbonyl, alkyl, alkyloxycarbonyl, substituted alkyl, alkylcarbonyl; R2 = OH, halo, (substituted) alkyl, cycloalkyl, alkenyl, alkynyl, alkoxy, alkoxy carbonyl, carboxyl, cyano, NO2, amino, polyhalomethyl, polyhalomethoxy, polyhalomethylthio, SOpR6, NHSOpR6, COR6, NHCOH, CONHNH2, NHCOR6, C(:NH)R6, 5-membered heterocycle; X1 = NR5, NHNH, N:N, O, CO, alkanediyl, CH(OH), S, SOp, X2-alkanediyl, alkanediyl-X2; X2 = NR5, NHNH, N:N, O, CO, CH(OH), S, SOp; R3 = NHR13, NR13R14, CONHR13, CONR13R14, COR15, CH:NNHCOR16, substituted alkyl, (substituted) alkoxyalkyl, substituted alkenyl, alkynyl, alkyl substituted with OH and a second substituent, C(:NOR8)-alkyl, R7, X3R7; R4 = halo, OH, alkyl, cycloalkyl, alkoxy, cyano, nitro, polyhaloalkyl, polyhaloalkoxy, aminocarbonyl, alkyloxycarbonyl, alkylcarbonyl, CHO, amino; R5 = H, aryl, CHO, alkylcarbonyl, alkyl, alkoxy carbonyl, etc.; R6 = alkyl, amino, polyhaloalkyl; R7 = mono-, bi-, or tricyclic (aromatic) carbocyclyl, heterocyclyl; R13, R14 = alkyl, alkenyl, alkynyl optionally substituted by cyano, aminocarbonyl; R15 = cyanoalkyl, aminocarbonylalkyl; R16 = R15, R7; p = 1, 2], were prepared Thus, 4-[(4-chloro-2-pyrimidinyl)amino]benzonitrile (preparation given) and 4-(2-cyanoethenyl)-2,6-dimethylaniline were stirred together at 150° for 1 h to give 4-[[4-[[4-(2-cyanoethenyl)-2,6-dimethylphenyl]amino]-2-pyrimidinyl]amino]benzonitrile. The latter inhibited HIV-induced cytopathic effect in MT-4 cells with pIC50 = 9.4.

IT 500293-01-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of pyrimidines as HIV inhibitors)

RN 500293-01-6 CAPLUS

CN Methanimidamide, N'-[4-(1-hydroxy-2-methylpropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



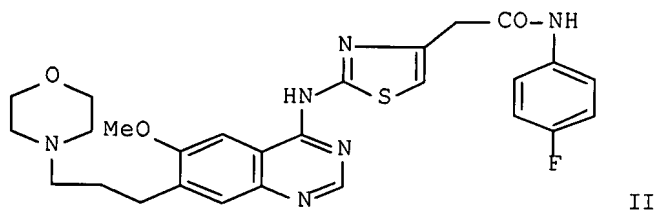
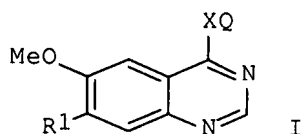
REFERENCE COUNT:

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THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 18 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:10468 CAPLUS Full-text  
 DOCUMENT NUMBER: 136:85826  
 TITLE: Preparation of substituted quinazoline derivatives and  
 their use as inhibitors of AURORA-2 kinase  
 INVENTOR(S): Mortlock, Andrew; Jung, Frederic  
 PATENT ASSIGNEE(S): Astrazeneca AB, Swed.  
 SOURCE: PCT Int. Appl., 249 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000649	A1	20020103	WO 2001-SE1450	20010621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2412592	A1	20020103	CA 2001-2412592	20010621
EP 1299381	A1	20030409	EP 2001-944061	20010621
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001011754	A	20030429	BR 2001-11754	20010621
HU 200301236	A2	20031028	HU 2003-1236	20010621
JP 2004501914	T	20040122	JP 2002-505773	20010621
CN 1496364	A	20040512	CN 2001-814620	20010621
EE 200200715	A	20040816	EE 2002-715	20010621
NZ 522696	A	20040827	NZ 2001-522696	20010621
RU 2283311	C2	20060910	RU 2003-102389	20010621
IN 2002MN01598	A	20041211	IN 2002-MN1598	20021112
ZA 2002009412	A	20040219	ZA 2002-9412	20021119
BG 107376	A	20030930	BG 2002-107376	20021211
NO 2002006010	A	20021213	NO 2002-6010	20021213
US 2003187002	A1	20031002	US 2002-311916	20021216
US 6919338	B2	20050719		
US 2006046987	A1	20060302	US 2005-70057	20050302
PRIORITY APPLN. INFO.:			EP 2000-401842	A 20000628
			WO 2001-SE1450	W 20010621
			US 2002-311916	A1 20021216
OTHER SOURCE(S):	MARPAT	136:85826		
ED Entered STN:	04 Jan	2002		
GI				



AB The title compds. [I; X = O, S, S:O, SO<sub>2</sub>, NR; R = H, C1-6alkyl; R<sub>1</sub> = OCH<sub>3</sub>, 3-(4-morpholinyl)propoxy, N-methylpiperidine-4-ylmethoxy, 3-(N-methylpiperazine-4-yl)propoxy, 3-(pyrrolidine-1-yl)propoxy, (CH<sub>3</sub>)<sub>2</sub>N(CH<sub>2</sub>)<sub>3</sub>O, etc.; Q = (un)substituted 5-membered heteroarom.], pharmaceutically acceptable salts, in vivo hydrolysable esters, and amides are prepared as AURORA-2 kinase inhibitors in warm blooded animals. The title compds. together with pharmaceutical compns. containing them are also described and claimed. Thus, the title compound II was prepared and tested in vitro for the ability to arrest MCF7 cells in specific phases of the cell cycle.

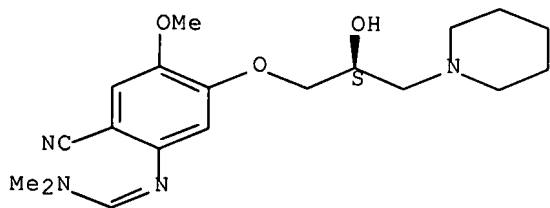
IT 385785-14-8P 385785-21-7P 385785-22-8P  
385785-24-0P 385785-25-1P 385785-29-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of quinazoline derivs. and use as inhibitors of AURORA-2 kinase)

RN 385785-14-8 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(1-piperidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

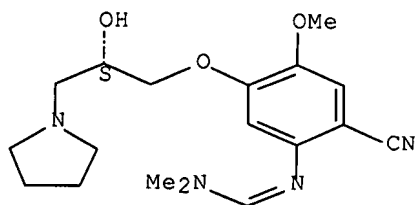
Absolute stereochemistry.  
Double bond geometry unknown.



RN 385785-21-7 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(1-pyrrolidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

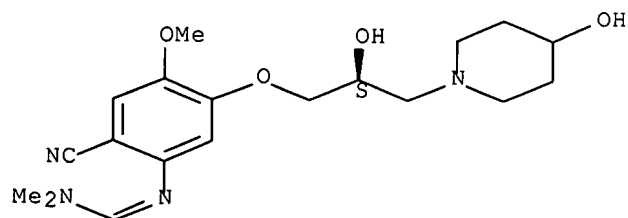
Absolute stereochemistry.  
Double bond geometry unknown.



RN 385785-22-8 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-(4-hydroxy-1-piperidinyl)propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

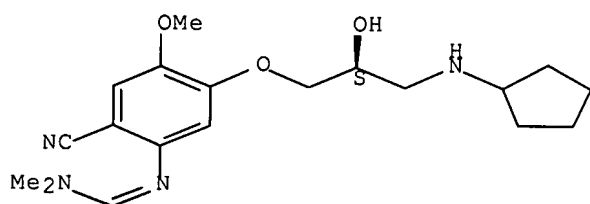
Absolute stereochemistry.  
Double bond geometry unknown.



RN 385785-24-0 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-3-(cyclopentylamino)-2-hydroxypropoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

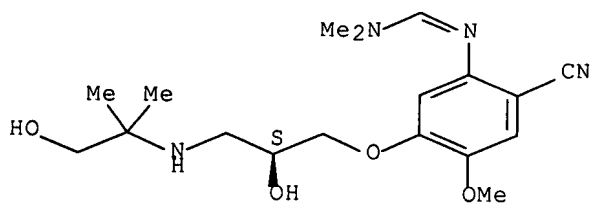


RN 385785-25-1 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-[(2-hydroxy-1,1-dimethylethyl)amino]propoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

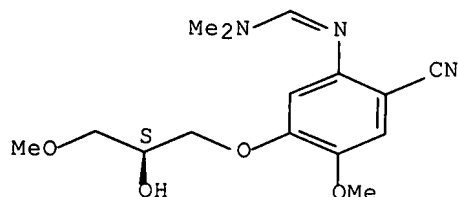




RN 385785-29-5 CAPLUS

CN Methanimidamide, N'-[2-cyano-5-[(2S)-2-hydroxy-3-methoxypropoxy]-4-methoxyphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 19 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:553541 CAPLUS Full-text

DOCUMENT NUMBER: 133:163952

TITLE: Preparation of N2-phenylamidines as fungicides  
INVENTOR(S): Charles, Mark David; Franke, Wilfried; Green, David  
Eric; Hough, Thomas Lawley; Mitchell, Dale Robert;  
Simpson, Donald James; Atherall, John Frederick

PATENT ASSIGNEE(S): Hoechst Schering Agrevo G.m.b.H., Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000046184	A1	20000810	WO 2000-GB345	20000204
W: AU, BR, CA, CN, CZ, HU, IL, IN, JP, KR, MX, RU, TR, UA, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2360943	A1	20000810	CA 2000-2360943	20000204
CA 2360943	C	20060418		
EP 1150944	A1	20011107	EP 2000-901791	20000204
EP 1150944	B1	20030820		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

TR 200102237	T2	20011221	TR 2001-2237	20000204
BR 2000009314	A	20020213	BR 2000-9314	20000204
HU 200105098	A2	20020429	HU 2001-5098	20000204
JP 2002536354	T	20021029	JP 2000-597256	20000204
AT 247629	T	20030915	AT 2000-901791	20000204
AU 768156	B2	20031204	AU 2000-23088	20000204
PT 1150944	T	20031231	PT 2000-901791	20000204
ES 2200816	T3	20040316	ES 2000-901791	20000204
RU 2234504	C2	20040820	RU 2001-124664	20000204
US 6893650	B1	20050517	US 2001-890775	20000204
ZA 2001005845	A	20021016	ZA 2001-5845	20010716
IN 2001DN00764	A	20070112	IN 2001-DN764	20010827
HK 1043358	A1	20050506	HK 2002-105179	20020712

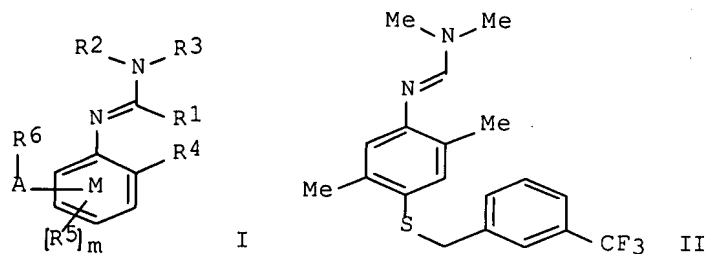
PRIORITY APPLN. INFO.:

GB 1999-2592	A	19990206
WO 2000-GB345	W	20000204

OTHER SOURCE(S): MARPAT 133:163952

ED Entered STN: 11 Aug 2000

GI



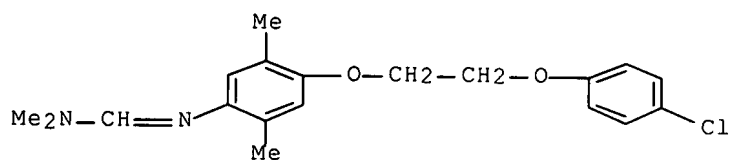
AB The title compds. [I; R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = R1, CN, acyl, etc.; R2 and R3, or R2 and R1, together with their interconnecting atoms may form (un)substituted ring; R4 = alkyl, alkenyl, alkynyl, etc.; m = 0-3; when present R5 = R4; R6 = (un)substituted carbo- or heterocyclyl; A = a direct bond, O, C.tplbond.C, etc.; AR6 and R5 together with benzene ring M form an (un)substituted fused ring system], useful as fungicides, were prepared E.g., a 3-step preparation of the formamidine II which showed moderate to total control against *Erysiphe graminis* f. sp. *Tritici* at 500 ppm (w/v) or less, was given.

IT 287940-59-4P 287940-60-7P 287940-61-8P  
287940-64-1P 287940-65-2P 287940-66-3P  
287940-68-5P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of N2-phenylamidines as fungicides)

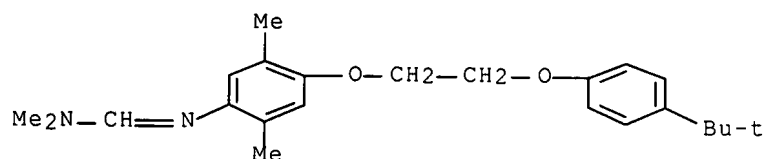
RN 287940-59-4 CAPLUS

CN Methanimidamide, N'-[4-[2-(4-chlorophenoxy)ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



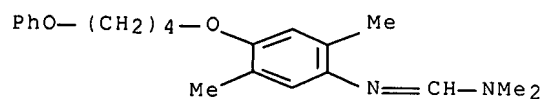
RN 287940-60-7 CAPLUS

CN Methanimidamide, N'-[4-[2-[4-(1,1-dimethylethyl)phenoxy]ethoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



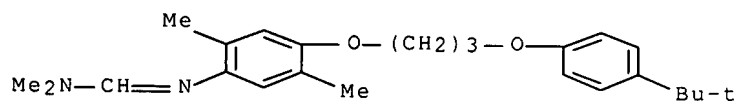
RN 287940-61-8 CAPLUS

CN Methanimidamide, N'-[2,5-dimethyl-4-(4-phenoxybutoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



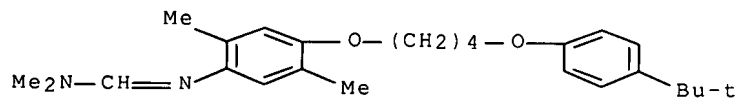
RN 287940-64-1 CAPLUS

CN Methanimidamide, N'-[4-[3-[4-(1,1-dimethylethyl)phenoxy]propoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

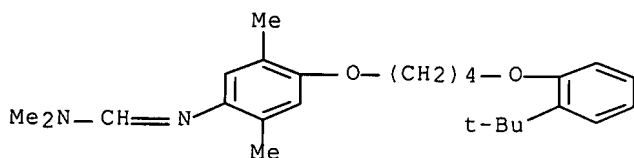


RN 287940-65-2 CAPLUS

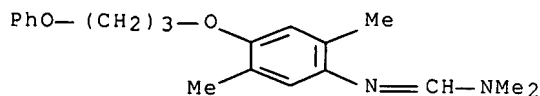
CN Methanimidamide, N'-[4-[4-[4-(1,1-dimethylethyl)phenoxy]butoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-66-3 CAPLUS  
 CN Methanimidamide, N'-[4-[4-[2-(1,1-dimethylethyl)phenoxy]butoxy]-2,5-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 287940-68-5 CAPLUS  
 CN Methanimidamide, N'-[2,5-dimethyl-4-(3-phenoxypropoxy)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 20 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998:1447 CAPLUS Full-text  
 DOCUMENT NUMBER: 128:61342  
 TITLE: Preparation of benzene derivatives having NOS inhibitory activity  
 INVENTOR(S): Emura, Takashi; Kimura, Nobuaki; Nagafuji, Toshiaki  
 PATENT ASSIGNEE(S): Chugai Seiyaku Kabushiki Kaisha, Japan; Emura, Takashi; Kimura, Nobuaki; Nagafuji, Toshiaki  
 SOURCE: PCT Int. Appl., 101 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9746515	A1	19971211	WO 1997-JP1881	19970603
W: AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9729781	A	19980105	AU 1997-29781	19970603
JP 10095762	A	19980414	JP 1997-145197	19970603
PRIORITY APPLN. INFO.:			JP 1996-178402	A 19960604
			JP 1996-235747	A 19960802

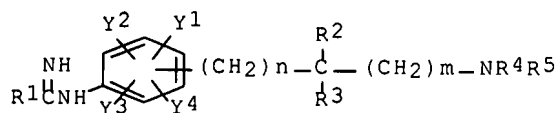
WO 1997-JP1881

W 19970603

OTHER SOURCE(S): MARPAT 128:61342

ED Entered STN: 02 Jan 1998

GI



I

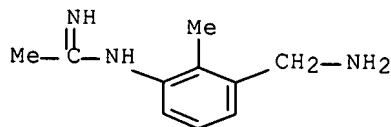
AB The title compds. (I; R1 = optionally substituted lower alkyl; R2-R5 = H or optionally substituted lower alkyl; Y1-Y4 = H, halo, optionally substituted lower alkyl; n, m = 0 or 1), possible tautomers, stereoisomers and optical isomers thereof, and pharmaceutically acceptable salts thereof are prepared. I have potent inhibitory effects on nitrogen monoxide synthetases (NOS) and are useful as remedies for diseases such as cerebrovascular disorders and head injury. Thus, m-H2NC6H4CH2NHCO2CMe3 (preparation given) was reacted with C6H5CH2OCON:C(OEt)CH2Et and then treated with CF3CO2H to give the title compound m-(H2NCH2)C6H4NHC(:NH)CH2Et.2HCl, which showed inhibitory activity against NOS.

IT 200277-64-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of benzene derivs. having NOS inhibitory activity)

RN 200277-64-1 CAPLUS

CN Ethanimidamide, N-[3-(aminomethyl)-2-methylphenyl]-, dihydrochloride (9CI)  
(CA INDEX NAME)



●2 HCl

L21 ANSWER 21 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:664788 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 125:300474

TITLE: Preparation of N-(carboxyalkyl)carbamate derivatives as carbamate haptens for antigens and for production of carbamate-specific antibodies and method for determination of agrochemical carbamates

INVENTOR(S): Morimune, Kosuke; Kawada, Michasu; Ookawa, Hideo

PATENT ASSIGNEE(S): Otsuka Kagaku Kk, Japan

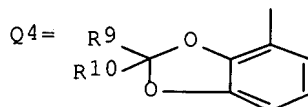
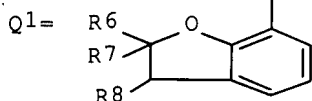
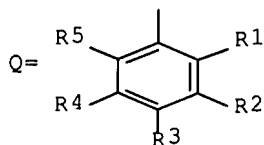
SOURCE: Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08231591	A	19960910	JP 1995-39592	19950228
PRIORITY APPLN. INFO.:			JP 1995-39592	19950228
OTHER SOURCE(S):			MARPAT 125:300474	
ED Entered STN: 11 Nov 1996				
GI				



AB AO2CNH(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>H [I; n = 2-5; A = 5- or 6-membered heterocycle-containing aromatic group containing at least one heteroatom selected from O, N, and S, preferably Q - Q2 or R11R12C:N; R1 - R7, R9 - R12 = H, halo, NO<sub>2</sub>, NH<sub>2</sub>, N-mono- or di(C1-6 alkyl)amino, cyano, OH, SH, C1-6 alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkoxycarbonyl, haloalkoxy, or haloalkylthio, C2-7 alkoxyalkyl, C2-8 alkoxyalkoxy, C2-7 alkylthioalkyl, CH<sub>2</sub>N<sub>3</sub>, CO<sub>2</sub>H, CONH<sub>2</sub>, etc.; or CR11R12 forms a heterocyclyl; R8 = H, C1-6 alkyl, OH, oxo; n = 2-5] are prepared. An antigen comprises a conjugate of said carbamate I with a protein which is selected from globulins of pumpkin seed or hemp seed, hemocyanin of slit limpet or key-hole limpet, egg white albumin, and bovine serum albumin. A monoclonal antibody highly specific to an agrochem. carbamate is produced by said antigen, preferably from culture supernatant of hybridomas obtained by cell-fusion of mouse spleen cell and myeloma cell. An enzyme immunoassay uses said monoclonal antibody, which involves (1) immobilization of said antigen on a carrier, (2) blocking, (3) addition of an agrochem. carbamate-containing sample and monoclonal and/or polyclonal antibody, competitively binding the antibody to said antigen and the latter carbamate to form antibody-antigen complex and an antibody-carbamate complex, (4) removing the antibody-carbamate complex, and (5) measurement of the amount of antigen-antibody complex and determination of the amount of the carbamate from a working curve. Above assay is useful for simple and rapid determination of agrochem. carbamate residues in environmental water and soil and food. Thus, MeSCMe<sub>2</sub>CH:NOH (aldicarb oxime) was condensed with tert-Bu 4-(phenoxy-carbonylamino)butyrate using DBU in CH<sub>2</sub>Cl<sub>2</sub> to give 50% MeSCMe<sub>2</sub>CH:NO<sub>2</sub>CNH(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>CMe<sub>3</sub>, which was treated with CF<sub>3</sub>CO<sub>2</sub>H in benzene at room temperature overnight to give 50% MeSCMe<sub>2</sub>CH:NO<sub>2</sub>CNH(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>H (aldicarb hapten). The latter compound and MeSCMe:NO<sub>2</sub>CNH(CH<sub>2</sub>)<sub>3</sub>CO<sub>2</sub>H (methomyl hapten) (preparation given) were condensed with bovine serum albumin by the mixed anhydride method using iso-Bu chloroformate in dioxane containing N-methylmorpholine to give a bovine serum albumin conjugate with haptens of aldicarb and methomyl as an antigen. This antigen was inoculated to a mouse every two weeks and the spleen was removed. Spleen cells were harvested, mixed with myeloma cells, and centrifuged, and the collected cells were suspended in DMEM culture medium, treated with polyethylene glycol solution for cell fusion, treated with DMEM culture medium and bovine fetal serum, and centrifuged. The collected cells were incubated in HAT culture medium in wells under 5% CO<sub>2</sub> atmosphere for 10-14 days and the antibody activity was examined for each well by ELISA assay. The well cells

producing the desired antibody were cloned by limited dilution in HAT medium to give 3 hybridoma cells producing anti-aldicarb antibody and 2 hybridoma cell producing anti-methomyl antibody. Each cloned hybridoma cell was cultured in DMEM medium containing 10% bovine fetal serum, and centrifuged to give a monoclonal antibody solution. Methomyl in soil was determined at 50-500 ng/g soil using purified monoclonal anti-methomyl antibody.

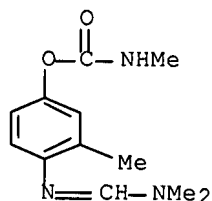
IT 17702-57-7, 4-Dimethylaminomethylèneamino-m-tolyl methylcarbamate

RL: ANT (Analyte); ANST (Analytical study)

(preparation of N-(carboxyalkyl)carbamate derivs. as carbamate haptens and their protein conjugates as antigens for production of carbamate-specific antibodies in enzyme immunoassay of agrochem. carbamates)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino) carbonyl] oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 22 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:411646 CAPLUS Full-text

DOCUMENT NUMBER: 122:221934

TITLE: Hazardous waste management system; carbamate production identification and listing of hazardous waste; and CERCLA hazardous substance designation and reportable quantities

CORPORATE SOURCE: United States Environmental Protection Agency, Washington, DC, 20460, USA

SOURCE: Federal Register (1995), 60(27), 7824-59, 9 Feb 1995  
CODEN: FEREAC; ISSN: 0097-6326

PUBLISHER: Superintendent of Documents

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 14 Mar 1995

AB The US EPA is listing as hazardous 6 wastes generated during the production of carbamate chems. for use as pesticides and in the production of synthetic rubber. The EPA is providing an exemption for certain wastes if the generator demonstrates that the hazardous air pollutants are not being discharged or volatilized during waste treatment and is also exempting biol. treatment sludges generated from the treatment of certain wastes provided that the sludges do not display any of the characteristics of a hazardous waste (i.e., ignitability, corrosivity, reactivity, or toxicity). The EPA is also adding 58 specific chems. to the list of com. chemical products that are hazardous wastes when discarded and to the list of hazardous constituents upon which listing detns. are based. Action on 12 specific chems. and 4 generic categories is being deferred. The effect of listing these wastes will be to subject them to regulation as hazardous waste under subtitle C of the Resource Conservation and Recovery Act (RCRA) and the notification requirements of section 103 under the Comprehensive Environmental Response, Compensation, and

Liability Act (CERCLA). The EPA is not taking action at this time to adjust the 1-lb statutory reportable quantities for these substances.

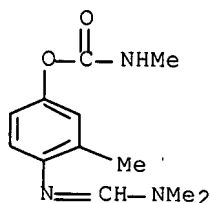
IT 17702-57-7

RL: POL (Pollutant); OCCU (Occurrence)

(hazardous waste designation of discarded com. chemical products by EPA of USA)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyloxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 23 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995:330513 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:105879  
 TITLE: Preparation of imidazo[1,2-a]pyridines as bradykinin antagonists.  
 INVENTOR(S): Oku, Teruo; Kayakiri, Hiroshi; Satoh, Shigeki; Abe, Yoshito; Yuki, Sawada; Tanaka, Hirokazu  
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 117 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596406	A1	19940511	EP 1993-117474	19931028
EP 596406	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AU 9350242	A	19940512	AU 1993-50242	19931026
AU 686115	B2	19980205		
ZA 9308011	A	19940609	ZA 1993-8011	19931027
IL 107426	A	19970713	IL 1993-107426	19931027
AT 174596	T	19990115	AT 1993-117474	19931028
ES 2125294	T3	19990301	ES 1993-117474	19931028
CA 2102137	A1	19940503	CA 1993-2102137	19931101
CN 1089947	A	19940727	CN 1993-119684	19931101
HU 66302	A2	19941128	HU 1993-3119	19931102
JP 07300478	A	19951114	JP 1993-274643	19931102
JP 2763036	B2	19980611		
US 5574042	A	19961112	US 1995-441786	19950516
US 5750699	A	19980512	US 1996-662198	19960612
PRIORITY APPLN. INFO.:			GB 1992-22947	A 19921102
			GB 1993-4249	A 19930303
			US 1993-142967	B2 19931029



US 1994-235632

B1 19940429

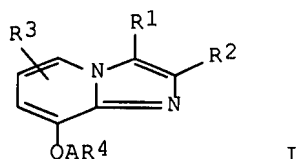
US 1995-441786

A3 19950516

OTHER SOURCE(S): MARPAT 122:105879

ED Entered STN: 04 Feb 1995

GI



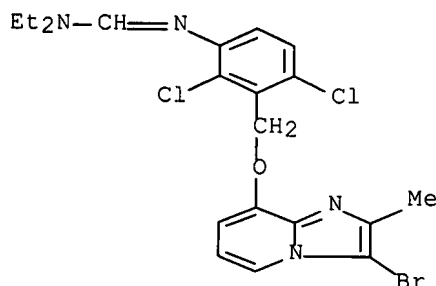
AB Title compds. [I; R1 = halo; R2, R3 = H, alkyl, haloalkyl, acyl, R4 = aryl having suitable substituent(s), heterocyclyl optionally having suitable substituent(s); Q = O or NR11; R11 = H, acyl; and A = alkylene], were prepared. Thus, 8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine was stirred with N-bromosuccinimide in EtOH/dioxane to give 3-bromo-8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine. I at 10<sup>-5</sup> M gave 95-100% inhibition of 3H-bradykinin binding to guinea pig ileum preps.

IT 160642-03-5P 160642-04-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as bradykinin antagonist)

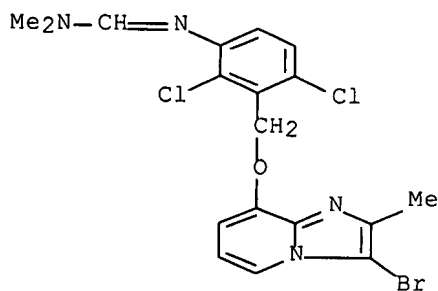
RN 160642-03-5 CAPLUS

CN Methanimidamide, N'-[3-[[3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy)methyl]-2,4-dichlorophenyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 160642-04-6 CAPLUS

CN Methanimidamide, N'-[3-[[3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl)oxy)methyl]-2,4-dichlorophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L21 ANSWER 24 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:214524 CAPLUS Full-text  
 DOCUMENT NUMBER: 116:214524  
 TITLE: Preparation of 2,4-diamino-5-phenylpyrimidines and  
 analogs as neuroprotectants  
 INVENTOR(S): Leach, Michael John; Nobbs, Malcolm Stuart; Iyer,  
 Ramachandran; Yeates, Clive Leonard; Skone, Philip  
 Alan  
 PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK  
 SOURCE: Eur. Pat. Appl., 31 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 459819	A2	19911204	EP 1991-304935	19910531
EP 459819	A3	19920311		
EP 459819	B1	19960814		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9104165	A	19930301	ZA 1991-4165	19910530
CA 2043640	A1	19911202	CA 1991-2043640	19910531
FI 9102623	A	19911202	FI 1991-2623	19910531
NO 9102100	A	19911202	NO 1991-2100	19910531
NO 180375	B	19961230		
NO 180375	C	19970409		
AU 9178097	A	19911205	AU 1991-78097	19910531
AU 652753	B2	19940908		
HU 58707	A2	19920330	HU 1991-1826	19910531
JP 06340634	A	19941213	JP 1991-235334	19910531
PL 166656	B1	19950630	PL 1991-290496	19910531
EP 679645	A1	19951102	EP 1995-111314	19910531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CZ 281070	B6	19960612	CZ 1991-1643	19910531
AT 141263	T	19960815	AT 1991-304935	19910531
IL 98330	A	19961031	IL 1991-98330	19910531
ES 2093078	T3	19961216	ES 1991-304935	19910531
PL 170373	B1	19961231	PL 1991-305331	19910531
SK 278444	B6	19970507	SK 1991-1643	19910531
RU 2091374	C1	19970927	RU 1991-4895583	19910531
IL 113599	A	19970930	IL 1995-113599	19910531
AU 9467455	A	19940915	AU 1994-67455	19940713
AU 680252	B2	19970724		

NO 9504109	A	19911202	NO 1995-4109	19951016
FI 9601410	A	19960328	FI 1996-1410	19960328
PRIORITY APPLN. INFO.:			GB 1990-12316	A 19900601
			EP 1991-304935	A3 19910531
			FI 1991-2623	A 19910531
			IL 1991-98330	A0 19910531
			NO 1991-2100	A 19910531

OTHER SOURCE(S): MARPAT 116:214524

ED Entered STN: 31 May 1992

GI For diagram(s), see printed CA Issue.

AB Title compds. [I; R1, R2 = NR13R14; R3 = H, (halo)alkyl, alkoxymethyl; R4 = H, halo, NO2; R5, R7, R8 = H, halo; R6 = H, halo, NO2, (di)(alkyl)amino; R13, R14 = H, alkyl; NR13R14 = heterocyclyl] were prepared. Thus, 3,5-Cl2C6H3CH2OH was converted in 3 steps to 3,5-Cl2C6H3CH(CN)CHO which was treated with CH2N2 and the resulting enol ether cyclocondensed with (N-methylpiperazino)formamidine to give title compound II which had IC50 of 0.27  $\mu$ M against veratrine-induced release of glutamate from rat brain slices.

IT 139256-60-3P 139256-62-5P 139256-63-6P

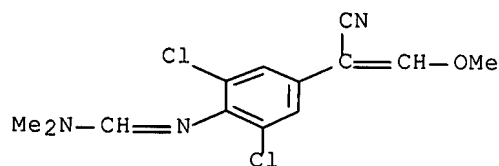
139256-65-8P 139256-66-9P 141231-84-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of neuroprotectants)

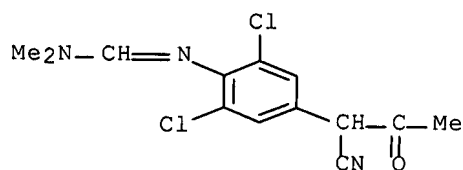
RN 139256-60-3 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-methoxyethenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



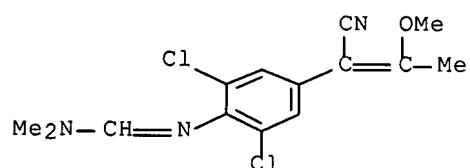
RN 139256-62-5 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-oxopropyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



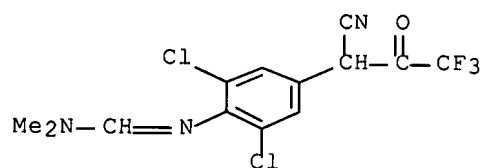
RN 139256-63-6 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-methoxy-1-propenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



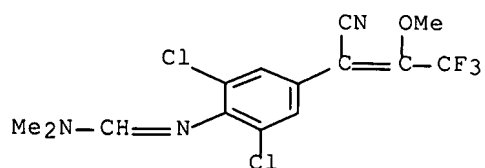
RN 139256-65-8 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-3,3,3-trifluoro-2-oxopropyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



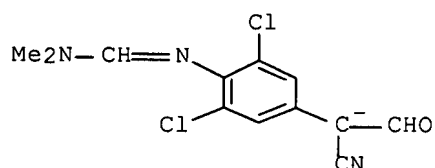
RN 139256-66-9 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-3,3,3-trifluoro-2-methoxy-1-propenyl)phenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



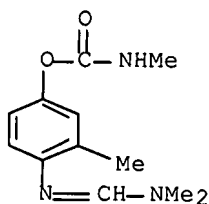
RN 141231-84-7 CAPLUS

CN Methanimidamide, N'-[2,6-dichloro-4-(1-cyano-2-oxoethyl)phenyl]-N,N-dimethyl-, ion(1-), sodium (9CI) (CA INDEX NAME)



● Na<sup>+</sup>

L21 ANSWER 25 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:2242 CAPLUS Full-text  
 DOCUMENT NUMBER: 114:2242  
 TITLE: Cholinesterase inhibition in the bulb mite  
 Rhizoglyphus echinopus (Acari: Acaridae) in relation  
 to the acaricidal action of organophosphates and  
 carbamates  
 AUTHOR(S): Errampalli, D. D.; Knowles, C. O.  
 CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211,  
 USA  
 SOURCE: Experimental and Applied Acarology (1990), 9(1-2),  
 19-30  
 CODEN: EAACEM; ISSN: 0168-8162  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 Jan 1991  
 AB The 5000-g supernatant fraction of whole-bulb-mite homogenates possessed a  
 cholinesterase (ChE) that hydrolyzed acylcholine esters in the order acetyl >  
 propionyl > butyryl. Acetyl- $\beta$ -methylcholine, but not benzoylcholine, also was  
 hydrolyzed as were acetylthiocholine and acetyl- $\beta$ -methylthiocholine. No  
 inhibition by excess substrate was observed to cholinesterase concns. as high  
 as 30 mM. Cholinesterase activity was markedly insensitive to eserine and to  
 certain other carbamates and organophosphates. Only organophosphates of the  
 dimethylphosphate type generally were active ChE inhibitors. Thus, the  
 inability of carbamates such as eserine, and organophosphates such as those  
 with alkyl groups larger than di-Me, to inhibit the bulb-mite ChE was probably  
 a consequence of the nature of the esteratic site. Apparently, ChE inhibition  
 was likely involved in the toxicity to bulb mites of some of the toxic  
 carbamates and organophosphates, but it might not be the only mechanism  
 involved, at least with several of the compds.  
 IT 17702-57-7, Formparanate  
 RL: BIOL (Biological study)  
 (cholinesterase inhibition by, in Rhizoglyphus echinopus, acaricidal  
 activity in relation to)  
 RN 17702-57-7 CAPLUS  
 CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]p  
 henyl]- (CA INDEX NAME)



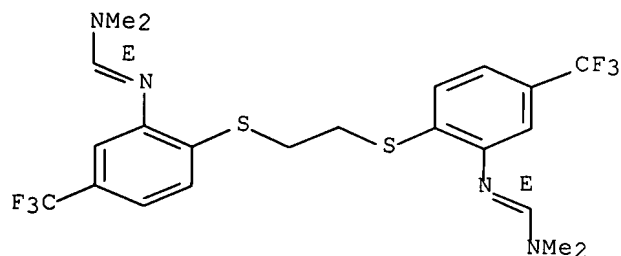
L21 ANSWER 26 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1990:630924 CAPLUS Full-text  
 DOCUMENT NUMBER: 113:230924  
 TITLE: Reactions of amines or amides with phthaloyl chloride.  
 Synthesis of fluorine-containing N,N-dimethyl-N'-  
 substituted amidines and related compounds  
 AUTHOR(S): Chen, Meijin; Chi, Chingsung; Chen, Qingyun

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

IT 130535-60-3P

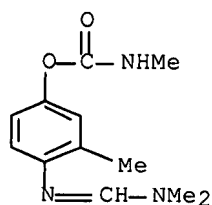
RN 130535-60-3 CAPLUS

Double bond geometry as shown.



L21 ANSWER 27 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1989:52928 CAPLUS Full-text  
DOCUMENT NUMBER: 110:52928  
TITLE: Comparative toxicities of selected pesticides to bulb  
mite (Acari: Acaridae) and twospotted spider mite  
(Acari: Tetranychidae)  
AUTHOR(S): Knowles, Charles O.; Errampalli, Daniel D.; El-Sayed,  
Gala N.  
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211,  
USA  
SOURCE: Journal of Economic Entomology (1988), 81(6), 1586-91  
CODEN: JEENAI; ISSN: 0022-0493  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
ED Entered STN: 17 Feb 1989

- AB The toxicities of 64 insecticides and acaricides belonging to several different chemical classes to the bulb mite, *Rhizoglyphus echinopus*, were examined with a contact-dip method. Results were compared with those obtained with many of the same compds. and the twospotted spider mite, *Tetranychus urticae*, with the slide-dip method. Bulb mites generally were much more tolerant to the pesticides than were twospotted spider mites. Only 15 of 20 organophosphates and 6 of 8 carbamates had LC50's <1000 ppm for bulb mites after 72 h. Thus, the remaining organophosphates and carbamates and the 9 pyrethroids, 6 organochlorines, 4 formamidines, 14 specific acaricides, diflubenzuron, nicotine, and abamectin were inactive. Of the 49 compds. tested against twospotted spider mites, LC50's <1000 ppm after 48 h were obtained for all compds. except 6 organophosphates, 2 carbamates, endosulfan, and 2 specific acaricides. This marked difference in the pesticide susceptibility profile between these two herbivorous mite species suggests that major differences between these organisms may exist at the biochem. level.
- IT 17702-57-7, Formparanate  
RL: PRP (Properties)  
(toxicity of, to bulb mite and twospotted spider mite, comparative)
- RN 17702-57-7 CAPLUS
- CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 28 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:492415 CAPLUS Full-text  
 DOCUMENT NUMBER: 109:92415  
 TITLE: Arylformamidines with antinociceptive properties  
 AUTHOR(S): Gall, M.; McCall, J. M.; TenBrink, R. E.;  
 VonVoigtlander, P. F.; Mohrland, J. S.  
 CORPORATE SOURCE: CNS Dis. Res. Lab., Upjohn Co., Kalamazoo, MI, 49001,  
 USA  
 SOURCE: Journal of Medicinal Chemistry (1988), 31(9), 1816-20  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 109:92415

ED Entered STN: 17 Sep 1988

AB A series of formamidines, MeNRCH:NAr [R = H, Ar = 2,4-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2-ClC6H4, 2,3-Cl2C6H3, 2,4-Cl2C6H3, 2,4,6-Me3C6H2; R = Me, Ar = 2,6-Me2C6H3, 2,5-Cl2C6H3, 3,4-Cl2C6H3, 2,6-Cl2C6H3, 2,4,6-Me3C6H2, 2,4-Me2C6H3, 2-(3-methylpyridyl)amine, etc.], structurally related to clonidine were synthesized starting from the reaction of anilines with HNCONHMe or Me2NCH(OMe)2 and investigated as potential nonopioid analgesics. Several of these compds. showed potent analgesic activity (ED50 on HCl writhing <1.0 mg/kg) with low potential for hypotensive effects. A qualitative description of the structure-activity relationship of this series reveals that

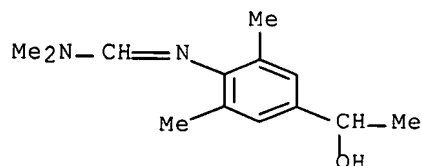
the 2,4- and 2,6-dimethylphenyl compds. are more potent analgesics than are the corresponding dichlorophenyl compds.

IT 114886-20-3P 114886-22-5P 114886-24-7P  
114886-25-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation and analgesic activity of)

RN 114886-20-3 CAPLUS

CN Methanimidamide, N'-[4-(1-hydroxyethyl)-2,6-dimethylphenyl]-N,N-dimethyl-  
(9CI) (CA INDEX NAME)



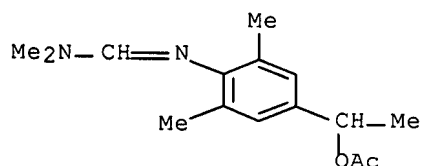
RN 114886-22-5 CAPLUS

CN Methanimidamide, N-[4-[1-(acetyloxy)ethyl]-2,6-dimethylphenyl]-N,N-dimethyl-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 114886-21-4

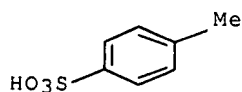
CMF C15 H22 N2 O2



CM 2

CRN 104-15-4

CMF C7 H8 O3 S

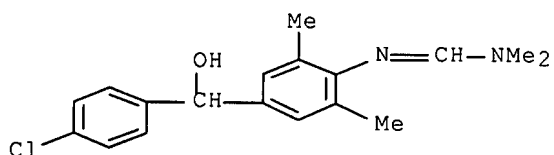


RN 114886-24-7 CAPLUS

CN Methanimidamide, N'-[4-[(4-chlorophenyl)hydroxymethyl]-2,6-dimethylphenyl]-

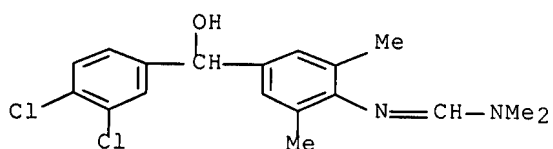


N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 114886-25-8 CAPLUS

CN Methanimidamide, N'-[4-[(3,4-dichlorophenyl)hydroxymethyl]-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

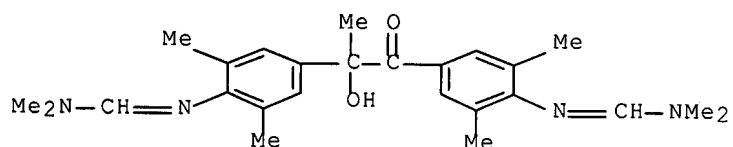


IT 114886-26-9P 114886-27-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

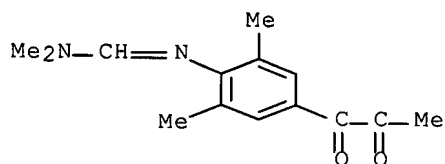
RN 114886-26-9 CAPLUS

CN Methanimidamide, N',N'''-[(1-hydroxy-1-methyl-2-oxo-1,2-ethanediyl)bis(2,6-dimethyl-4,1-phenylene)]bis[N,N-dimethyl- (9CI) (CA INDEX NAME)]

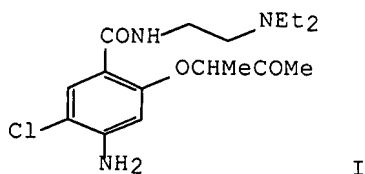


RN 114886-27-0 CAPLUS

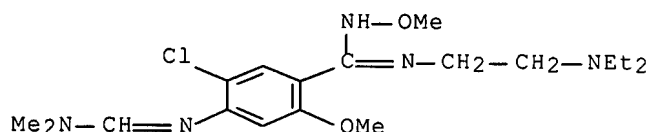
CN Methanimidamide, N'-[4-(1,2-dioxopropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L21 ANSWER 29 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1988:454441 CAPLUS Full-text  
 DOCUMENT NUMBER: 109:54441  
 TITLE: Substituted benzamides. 1. Potential nondopaminergic antagonists of chemotherapy-induced nausea and emesis  
 AUTHOR(S): Monkovic, Ivo; Willner, David; Adam, Michael A.; Brown, Myron; Crenshaw, R. R.; Fuller, Carl E.; Juby, Peter F.; Luke, George M.; Matiskella, John A.; Montzka, Thomas A.  
 CORPORATE SOURCE: Pharm. Res. Dev. Div., Bristol-Myers Co., Syracuse, NY, 13221, USA  
 SOURCE: Journal of Medicinal Chemistry (1988), 31(8), 1548-58  
 CODEN: JMCMAR; ISSN: 0022-2623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 109:54441  
 ED Entered STN: 19 Aug 1988  
 GI



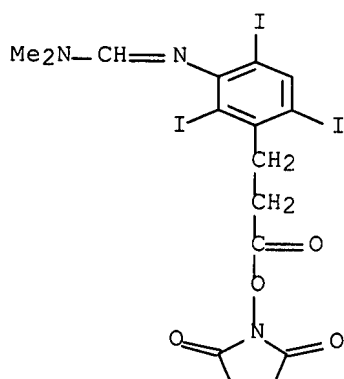
- AB A series of new substituted benzamides has been synthesized and evaluated for dopamine antagonist activity and for antagonism of cisplatin-induced emesis in the dog and in the ferret. Modification of the 2-methoxy substituent of metoclopramide was detrimental to dopaminergic D2 antagonism but not necessarily to antagonism of cisplatin-induced emesis. A number of analogs having a  $\beta$ -keto,  $\beta$ -hydroxy,  $\beta$ -methoxy,  $\beta$ -imino, or  $\beta$ -unsatd. alkyloxy substituent instead of methoxy have shown equal or superior protection from emesis to that of metoclopramide. At the same time these compds. were found to be free of dopaminergic D2 antagonism in both in vitro ([ $^3$ H]spiperone binding) and in vivo tests (rat catalepsy, antagonism of apomorphine-induced stereotypy in the rat, and apomorphine-induced emesis in the dog). Compound I showed potential advantage over clin. available antiemetic agents for chemotherapy.
- IT **114614-60-7P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)
- RN 114614-60-7 CAPLUS
- CN Benzenecarboximidamide, 5-chloro-N-[2-(diethylamino)ethyl]-4-[[[(dimethylamino)methylene]amino]-N',2-dimethoxy- (9CI) (CA INDEX NAME)



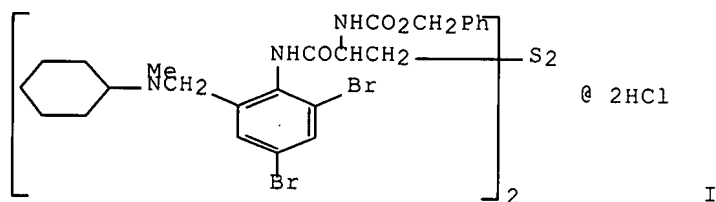
L21 ANSWER 30 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1987:614496 CAPLUS Full-text  
 DOCUMENT NUMBER: 107:214496  
 TITLE: Iodinated antibodies in contrast media for  
 computerized tomography  
 INVENTOR(S): Takahashi, Yutaka; Kato, Yoshinori; Usui, Masayoshi  
 PATENT ASSIGNEE(S): Teijin Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62042936	A	19870224	JP 1985-181665	19850821

PRIORITY APPLN. INFO.:  
 ED Entered STN: 12 Dec 1987  
 AB Contrast media for computerized tomog. contain iodinated (i.e. iodine compound-labeled) antibodies. Horse anti-human  $\alpha$ -fetoprotein antibody was treated with N-succinimidyl  $\beta$ -(3-dimethylaminomethyleneamino- 2,4,6-triiodophenyl)propionate to form a contrast medium.  
 IT 111200-24-9DP, reaction products with antibodies to  $\alpha$ -fetoproteins  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of, as contrast medium for computerized tomog.)  
 RN 111200-24-9 CAPLUS  
 CN Methanimidamide, N'-[3-[3-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-oxopropyl]-2,4,6-triiodophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L21 ANSWER 31 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1986:213351 CAPLUS Full-text  
 DOCUMENT NUMBER: 104:213351  
 TITLE: Analytical profile of REC 15-1884-2, a new compound  
 with expectorant activity  
 AUTHOR(S): Guenzi, A.; Cappelletti, R.; Esposito, R.; Polidori,  
 M.; Leonardi, A.  
 CORPORATE SOURCE: Chem. Res. Dep., Recordati S.p.A., Milan, Italy  
 SOURCE: Bollettino Chimico Farmaceutico (1985), 124(11),  
 451-68  
 CODEN: BCFAAI; ISSN: 0006-6648  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 14 Jun 1986  
 GI

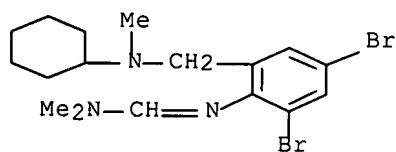


AB The IR, UV, NMR and <sup>13</sup>C-NMR and mass spectral properties REC 15-1884-2 (I) [86042-51-5] having expectorant activity are described. The TLC and HPLC gas chromatog. of I are discussed. The synthesis of I, and impurities obtained during the preparation of I and related compds. are described.

IT 102203-29-2P  
 RL: PREP (Preparation)  
 (preparation of)

RN 102203-29-2 CAPLUS

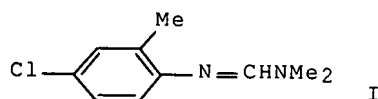
CN Methanimidamide, N'-[2,4-dibromo-6-[(cyclohexylmethylamino)methyl]phenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L21 ANSWER 32 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1982:594258 CAPLUS Full-text  
 DOCUMENT NUMBER: 97:194258  
 TITLE: Interaction of formamidines with the platelet

5-hydroxytryptamine uptake system  
 AUTHOR(S): Johnson, Terry L.; Knowles, Charles O.  
 CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211, USA  
 SOURCE: General Pharmacology (1982), 13(4), 299-307  
 CODEN: GEPHDP; ISSN: 0306-3623  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 GI



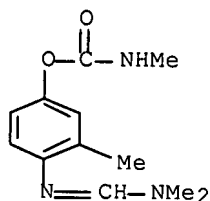
AB The activity of chlordimeform (I) [6164-98-3], its 2 formamide metabolites, demethylchlordimeform [21787-80-4] and didemethylchlordimeform [57151-04-9], and 116 other formamidines and related compds. as inhibitors of rat platelet 5-hydroxytryptamine (5-HT) [50-67-9] uptake was studied. Though several formamidines were more active than I (pI50 3.9), none was as potent as imipramine [50-49-7]. Dimethylchlorodimeform (pI50 4.4) was the most potent formamide examined. Inhibition of 5-HT uptake by I was mixed. Moreover, I inhibition of 5-HT uptake by reserpinized platelets was not significantly different from uptake by nonreserpinized platelets. I and its 2 formamide metabolites caused release of platelet 5-HT, and their potency as releasers paralleled their activity as uptake inhibitors. Electron microscopy indicated that I treatment changed platelet shape and size, but apparently did not alter phys. integrity of the membrane. Thus, platelet 5-HT storage vesicles were the most probable site of formamide action.

IT 17702-57-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
 (hydroxytryptamine uptake by blood platelet response to)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 33 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1981:581946 CAPLUS Full-text  
 DOCUMENT NUMBER: 95:181946  
 TITLE: Inhibition of rat brain monoamine oxidase by

insecticides, acaricides and related compounds  
AUTHOR(S): Kadir, Habsah A.; Knowles, Charles O.  
CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, 65211,  
USA  
SOURCE: General Pharmacology (1981), 12(4), 239-47  
CODEN: GEPHDP; ISSN: 0306-3623

DOCUMENT TYPE: Journal  
LANGUAGE: English

ED Entered STN: 12 May 1984

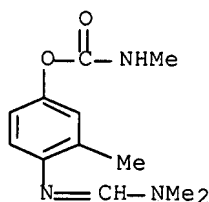
AB Sixty-one insecticides, acaricides, and related compds. were examined for their potency as in vitro inhibitors of the deamination of biogenic amine substrates by rat brain monoamine oxidase (MAO) [9001-66-5]. Substrates examined included serotonin (5-HT) [50-67-9], dopamine (DA) [51-61-6], octopamine (OCP) [104-14-3], tryptamine (TYP) [61-54-1], and  $\beta$ -phenylethylamine (PEA) [64-04-0]. Twenty-eight compds., including 6 organophosphates, 4 carbamates, 8 formamidines, and 2 sulfonates, were considered active, since they gave 50% inhibition of the deamination of  $\geq 1$  substrate when assayed at  $1 + 10^{-4}$ M. Generally, the active compds. were more potent MAO inhibitors when assayed with 5-HT or DA than with OCP, TYP, or PEA. Five of the 6 active organophosphates possessed a substituted coumarinyl moiety. Potosan [299-45-6] was the most potent organophosphate MAO inhibitor giving pI50 values of 5.95 and 5.75 for DA and 5-HT, resp.; inhibition of 5-HT deamination by Potosan was mixed. Carbaryl [63-25-2] was the most potent carbamate with pI50 values of 5.00 for DA and 4.80 for 5-HT. Inhibition by carbaryl of 5-HT, DA, and OCP deamination was competitive, while that of TYP was mixed. The formamidine chlordimeform [6164-98-3] gave pI50 values of 4.50 for DA and 4.25 for OCP; its N-demethyl derivative, demethylchlordimeform [21787-80-4], was somewhat more potent giving pI50 values of 4.80 for DA and 4.60 for OCP. Inhibition of DA and OCP deamination by chlordimeform was competitive. Ovex [80-33-1] was the most potent inhibitor of 5-HT and DA deamination with pI50 values of 6.15 and 5.90, resp.; its pI50 value with PEA was only 2.50. Thus, ovex was >4000 times more potent against rat brain MAO when assayed with 5-HT than with PEA. Inhibition by ovex was mixed with all substrates examined

IT 17702-57-7

RL: BIOL (Biological study)  
(monoamine oxidase of brain inhibition by)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



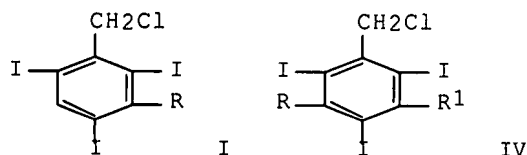
L21 ANSWER 34 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1977:139523 CAPLUS Full-text

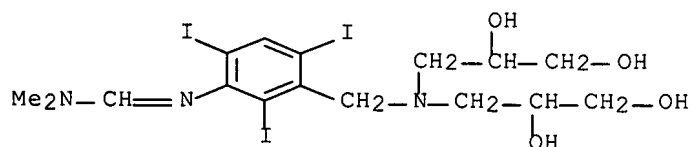
DOCUMENT NUMBER: 86:139523

TITLE: Synthesis of iodinated derivatives of  
3-aminobenzylamine and 3,5-diaminobenzylamine for

x-ray diagnostics  
 AUTHOR(S): Hebky, J.; Polacek, J.; Tikal, I.; Lupinek, V.; Sova, M.  
 CORPORATE SOURCE: Res. Inst. Pharm. Biochem., Prague, Czech.  
 SOURCE: Collection of Czechoslovak Chemical Communications (1976), 41(10), 3094-105  
 CODEN: CCCCAK; ISSN: 0010-0765  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 GI



AB As potential x-ray contrast agents, 41 triiodo and tetraiodo derivs. were prepared by condensation of I [R = NH<sub>2</sub>, AcNH, PrCONH, iodo, Me<sub>2</sub>NCH<sub>2</sub>N, AcNMe, MeO, MeNH, AcOCH<sub>2</sub>CONH, HOCH<sub>2</sub>CONH, AcOCH<sub>2</sub>CONMe, HOCH<sub>2</sub>CONMe, o-C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>NCH<sub>2</sub>CONMe, HO(CH<sub>2</sub>)<sub>2</sub>O, HOCH<sub>2</sub>CH(OH)CH<sub>2</sub>O] with NH(CH<sub>2</sub>CH<sub>2</sub>OH)<sub>2</sub> (II), H<sub>2</sub>NCH<sub>2</sub>CH(OH)CH<sub>2</sub>OH, NH[CH<sub>2</sub>CH(OH)CH<sub>2</sub>OH] (III), H<sub>2</sub>NC(CH<sub>2</sub>OH)<sub>2</sub>Me, MeNHCH<sub>2</sub>CH<sub>2</sub>OH, EtNHCH<sub>2</sub>CH<sub>2</sub>OH or N-methylglucamine, and by condensation of IV (R = NH<sub>2</sub>, AcNH, Ac<sub>2</sub>N, iodo, MeO; R<sub>1</sub> = AcNH), Ac<sub>2</sub>N) with II or III.  
 IT 62180-05-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
     (preparation of)  
 RN 62180-05-6 CAPLUS  
 CN Methanimidamide, N'-[3-[[bis(2,3-dihydroxypropyl)amino]methyl]-2,4,6-triiodophenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L21 ANSWER 35 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1975:473221 CAPLUS Full-text  
 DOCUMENT NUMBER: 83:73221  
 TITLE: Fungicide movement in soils  
 AUTHOR(S): Helling, Charles S.; Dennison, D. Gayle; Kaufman, Donald D.  
 CORPORATE SOURCE: Agric. Res. Cent. West, ARS, Beltsville, MD, USA  
 SOURCE: Phytopathology (1974), 64(8), 1091-100

CODEN: PHYTAJ; ISSN: 0031-949X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 12 May 1984

GI For diagram(s), see printed CA Issue.

AB A method combining a bioassay with soil thin-layer chromatog. (soil TLC) was developed to determine the mobility of fungicides in soils. After leaching soil TLC plates with water, 10 soil fungi (*Aspergillus fumigatus*, *Diploidia zeae*, 2 isolates of *Fusarium moniliforme*, *F. roseum*, *Helminthosporium sativum*, *Penicillium chrysogenum*, *P. rugulosum*, *Rhizoctonia solani*, and *Trichoderma viride*) and an alga (*Chlorella sorokiniana*) were tested as visualizing agents by spraying plates with a liquid nutrient agar suspension of the organism. Plates were incubated at 100% relative humidity and .apprx.28° until inhibition or stimulation zones appeared, usually at 1-4 days. The mobility of 38 pesticides (33 fungicides, 3 insecticides, 1 acaricide, and 1 herbicide) in Hagerstown silty clay loam was determined. The relatively mobile compds. were cycloheximide (I) [66-81-9], cycloheximide oxime [20362-15-6], Dexon [140-56-7], the mercaptide component of Ceresan L, formetanate [22259-30-9], formparanate [35452-92-7], and oxycarboxin [5259-88-1]. Immobile compds. included chloranil [118-75-2], chloroneb [2675-77-6], DCNA [99-30-9], dichlone [117-80-6], dodine [2439-10-3], hexachlorophene [70-30-4], Morestan [2439-01-2], PCNB [82-68-8], TCNA [2438-88-2], Terrazole [2593-15-9], and zineb (II) [12122-67-7]. Of the 11 organisms tested, *T. viride* and *C. sorokiniana* were sensitive to the greatest number of fungicides. The mobility order nabam [142-59-6] > maneb [12427-38-2] > II was confirmed by bioassay and autoradiog. In 5 different soils, movement of these 3 dithiocarbamate fungicides was inversely related to soil organic matter content.

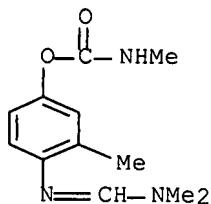
IT 35452-92-7

RL: ANT (Analyte); ANST (Analytical study)

(mobility determination of, in soils, by thin-layer chromatog.)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 36 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1975:165857 CAPLUS Full-text

DOCUMENT NUMBER: 82:165857

TITLE: Reference LD50 values for some insecticides against the boll weevil

AUTHOR(S): Hopkins, A. R.; Taft, H. M.; James, W.

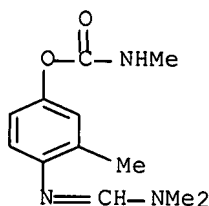
CORPORATE SOURCE: Southeast. Cotton Insects Lab., ARS, Florence, SC, USA

SOURCE: Journal of Economic Entomology (1975), 68(2), 189-92

CODEN: JEENAI; ISSN: 0022-0493



DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 GI For diagram(s), see printed CA Issue.  
 AB The standard method (topical application) of determining resistance in *Anthonomus grandis* adopted by the Entomological Society of America was used to establish LD50 values for 6 exptl. insecticides and 16 chemical or chemical combinations. These values can serve as reference stds. that may be used to detect changes in susceptibility. The average LD50's ranged from 0.052 µg/weevil for methyl parathion (I) [298-00-0] to 39.490 for carbaryl [63-25-2]. Also, the LD50's obtained for toxaphene-DDT mixture [37272-06-3], I, and carbaryl by the standard method were compared with the LC50's obtained with an immersion metod and a dry film method. The dry film method appered more promising for a field test kit.  
 IT **35452-92-7**  
 RL: PRP (Properties)  
 (toxicity of, to boll weevil)  
 RN 35452-92-7 CAPLUS  
 CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

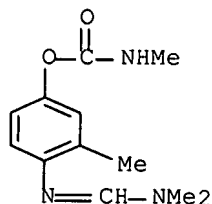
L21 ANSWER 37 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1972:471390 CAPLUS Full-text  
 DOCUMENT NUMBER: 77:71390  
 TITLE: Mode of action studies with formetanate and formparanate acaricides  
 AUTHOR(S): Knowles, Charles O.; Ahmad, Sami  
 CORPORATE SOURCE: Dep. Entomol., Univ. Missouri, Columbia, MO, USA  
 SOURCE: Pesticide Biochemistry and Physiology (1971), 1(3-4), 445-52  
 CODEN: PCBPBS; ISSN: 0048-3575  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB The acaricides formetanate (I) [22259-30-9] and formparanate [ **35452-92-7**] inhibited in vitro acetylcholine deacetylation by acetylcholinesterase [9000-81-1] from rats, houseflies, and two-spotted spider mites, and in vivo acetylcholinesterase activity was depressed in the above organisms poisoned with I. An excellent correlation was observed between toxicity and in vivo acetylcholinesterase inhibition in I-poisoned organisms. Thus, acetylcholinesterase inhibition by the acaricide seemed to be the fundamental biochem. lesion responsible for death in the rat, housefly, and mite.  
 IT **35452-92-7**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(acaricides, action mechanism of)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 38 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:415581 CAPLUS Full-text

DOCUMENT NUMBER: 77:15581

TITLE: Corn earworm control on sweet corn ears in central and south Florida, 1969-70

AUTHOR(S): Janes, M. J.; Greene, G. L.

CORPORATE SOURCE: Agric. Res. Educ. Cent., Univ. Florida, Belle Glade, FL, USA

SOURCE: Journal of Economic Entomology (1972), 65(2), 521-2  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB The daily application of CIBA C-9491 [O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate] (I) [18181-70-9], diazinon [333-41-5], Fundal [6164-98-3], Monitor [10265-92-6], Phosvel [21609-90-5], or UC-34096 [4-[[ (dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl] [35452-92-7] at 1 lb/acre, or dursban [2921-88-2], gardona [961-11-5], or methomyl [16752-77-5], at 0.5 lb/acre, gave higher than 95% control of corn earworm (*Heliothis zea*) on sweet corn. Treatment with *Bacillus thuringiensis* was ineffective.

L21 ANSWER 39 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:42750 CAPLUS Full-text

DOCUMENT NUMBER: 76:42750

TITLE: Field comparisons of insecticidal sprays for control of four tomato insects in South Texas

AUTHOR(S): Harding, James A.

CORPORATE SOURCE: Agric. Res. Ext. Cent., Texas A and M Univ., Weslaco, TX, USA

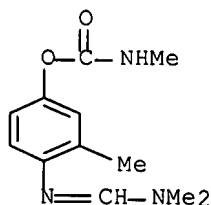
SOURCE: Journal of Economic Entomology (1971), 64(5), 1302-4  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

- AB In field tests, Monitor (O,S-dimethyl phosphoramidothioate)(I) [10265-92-6], monocrotophos [6923-22-4], Phosvel (O-(4-bromo-2,5- dichlorophenyl) O-methyl phenylphosphonothioate) [21609-90-5], and 15 other insecticidal sprays effectively controlled 1 or more of the tomato insects, pinworm (*Keiferia lycopersicella*), *Heliothis* sp., granulate cutworm (*Feltia subterranea*), granulate cutworm (*Feltia subterranea*), and vegetable leafminer (*Liriomyza munda*). Slight phytotoxicity was observed during the use of Ciba C-9491 (O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate) [18181-70-9], Galecron (4'-(4-chloro-o-tolyl)-N,N- dimethylformamidine [6164-98-3] and 2 other sprays.
- IT **35452-92-7**  
 RL: BIOL (Biological study)  
 (insect control by, on tomatoes)
- RN 35452-92-7 CAPLUS
- CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 40 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:31040 CAPLUS Full-text

DOCUMENT NUMBER: 76:31040

TITLE: Studies of carbamate pesticide metabolism utilizing plant and mammalian cells in culture

AUTHOR(S): Locke, Raymond K.; Bastone, Vivian B.; Baron, Ronald L.

CORPORATE SOURCE: Div. Pestic. Chem. Toxicol., Food Drug Adm., Washington, DC, USA

SOURCE: Journal of Agricultural and Food Chemistry (1971), 19(6), 1205-9  
 CODEN: JAFCAU; ISSN: 0021-8561

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

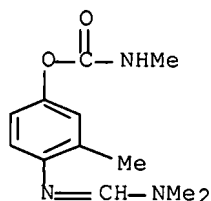
AB The metabolism of <sup>14</sup>C-labeled carbamate insecticides by human embryonic lung and tobacco cells was studied. Lung cells hydrolyzed Banol (I) [671-04-5] to a phenol, which was then conjugated as an O-glucuronide. UC-34096 (II) [17702-57-7] was not metabolized by lung cells, but formed a spontaneous decomposition product. Tobacco cells in suspension culture incorporated 21% of added carbaryl (III) [63-25-2]. A significant amount of the incorporated label was associated with cell debris after homogenization. The remaining label in the supernatant fraction consisted of an unidentified organoextractable metabolite, neutral conjugates of III,  $\alpha$ -naphthol [90-15-3], and 5,6-dihydro-5,6- dihydroxycarbaryl [5375-49-5], and acidic conjugates of III and  $\alpha$ -naphthol.

IT 17702-57-7

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL  
(Biological study); PROC (Process)  
(metabolism of, by embryonic lung cultures)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]p  
henyl]- (CA INDEX NAME)



L21 ANSWER 41 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:509231 CAPLUS Full-text

DOCUMENT NUMBER: 75:109231

TITLE: Insecticides for budworm control in central and south  
Florida

AUTHOR(S): Greene, G. L.; Janes, M. J.

CORPORATE SOURCE: North Florida Exp. Stn., Quincy, FL, USA

SOURCE: Proceedings of the Florida State Horticultural Society  
(1971), Volume Date 1970, 83, 168-70  
CODEN: PFSHA7; ISSN: 0097-1219

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

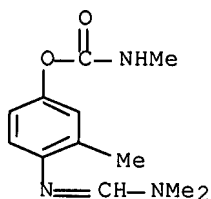
AB Field expts. testing the control of *Spodoptera frugiperda* [*Laphygma frugiperda*] in maize at 2 locations in central and southern Florida during 1969-70 showed 0-82% of stalks free from damage. Gardona, Lannate, Monitor, Niran 6-3, Phosvel, and UC-34096 gave good control of the budworm when applied at adequate rates. Dylox, parathion + toxaphene, and Sevin did not give adequate control. Insecticide granules applied at seeding time helped in the early stages of growth but did not act long enough to replace the need for sprays. *Bacillus thuringiensis*, including the Brownsville, Texas strain, was also tried, but did not give good control.

IT 17702-57-7

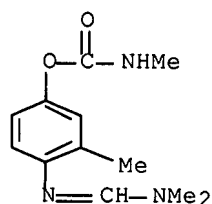
RL: BIOL (Biological study)  
(*Laphygma frugiperda* control by, in corn)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]p  
henyl]- (CA INDEX NAME)



L21 ANSWER 42 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1971:447787 CAPLUS Full-text  
DOCUMENT NUMBER: 75:47787  
TITLE: Field tests for control of boll weevils, cabbage  
loopers, heliothis, and whiteflies on cotton, Weslaco  
AUTHOR(S): Harding, James A.  
CORPORATE SOURCE: Res. Ext. Cent., Texas A and M Univ., Weslaco, TX, USA  
SOURCE: Tex., Agr. Exp. Sta., Progr. Rep. (1970), PR-2841, 5-7  
CODEN: TAEPA4  
DOCUMENT TYPE: Report  
LANGUAGE: English  
ED Entered STN: 12 May 1984  
AB In 3 expts. with cotton insect control 16 chems. were applied at 4.3 gal of  
formulation/acre. Although adequate control was not attained in every case  
the insecticides which were statistically superior were listed for each insect  
with the lb rate/acre in parentheses. Boll weevil (*Anthonomus grandis*)-  
toxaphene + methyl parathion (2 + 1), carbaryl + parathion (2 + 0.5), Bay  
93820 (1), Union Carbide 34096 (1.5) Pennsalt TD 5032 (0.5) Ciba 9491 (2) and  
Monitor (1.5). Cabbage looper (*Trichoplusia ni*)-Ciba 9491 (2), Monitor (1.5),  
Torak (2), Galecron (1), EPN (1) and Azodrin (1). Heliothis species  
infestations were very light, but parathion (1.5), Pennsalt TD-5032 (0.5),  
Galecron (1) and Ciba 9491 (2) offered promise. Whitefly (*Trialeurodes*  
*abutilonea*) control was recorded in only 1 test in which 2 mixts. and 1 chem  
were compared. Azodrin (1) was outstanding for control followed by carbaryl +  
methyl parathion (2 + 0.5). Noticeable phytotoxicity was noted in plots  
treated with Ciba 9491 (2) and Pennsalt TD 5032 (0.5).  
IT 17702-57-7  
RL: BIOL (Biological study)  
(insect control by, on cotton)  
RN 17702-57-7 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]p  
henyl]- (CA INDEX NAME)



L21 ANSWER 43 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1971:140074 CAPLUS Full-text  
DOCUMENT NUMBER: 74:140074  
TITLE: Effect of foliar sprays on the green peach aphid on  
peppers in southern California  
AUTHOR(S): Hale, Ronnie L.; Shorey, Harry H.  
CORPORATE SOURCE: Univ. California, Riverside, CA, USA  
SOURCE: Journal of Economic Entomology (1971), 64(2), 547-9  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

GI For diagram(s), see printed CA Issue.

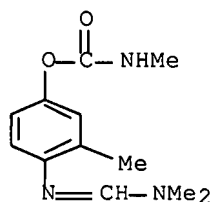
AB The green peach aphid (*Myzus persicae*) on peppers became more tolerant to the insecticide, endosulfan (I) (0.5 lb/acre), within a period of 3-4 years, however, when I was applied at 1.0 lb./acre in combination with cotton seed oil, it provided good control for 14-21 days. Bayer 65258 (O-ethyl S-ethyl phosphoramidothioate), carbofuran, dimethoate, formetanate, methomyl, oxydemetonmethyl, phorate, and UC-34096 (4-[[[(dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl) reduced aphid populations to a low level for 14-28 days.

IT 17702-57-7 35452-92-7

RL: BIOL (Biological study)  
(aphid control by, on red peppers)

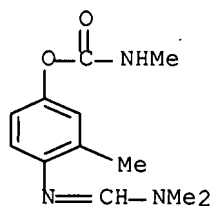
RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 44 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:86776 CAPLUS Full-text

DOCUMENT NUMBER: 74:86776

TITLE: Field tests of chemicals for control of the poplar  
petiole gall aphid on cabbage

AUTHOR(S): Harding, James A.

CORPORATE SOURCE: Agric. Res. Ext. Cent., Texas A and M Univ., Weslaco,  
TX, USA

SOURCE: Journal of Economic Entomology (1971), 64(1), 330-2  
 CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

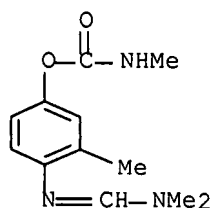
GI For diagram(s), see printed CA Issue.

AB Of the 15 granular insecticides applied to cabbage as a soil side dressing prior to infestation with poplar petiole gall aphid (*Pemphigus populitransversus*), di-sulfoton, aldicarb, carbofuran, TD-5032, and TD-8550 were the most effective in controlling aphids; of the 9 liquid insecticides applied as side dressings, Monitor, diazinon, Ciba 9491 (O-(2,5-dichloro-4-iodophenyl) O,O-dimethyl phosphorothioate) (I), and UC-34096 (4-[[[(dimethylamino)methylene]amino]-m-tolyl-methylcarbamate-HCl) were the most effective. Following spray applications of 26 chems. after aphid infestation, carbo-furan, dimethoate, oxydemetonmethyl, Bayer 93820 (isopro-pylsalicylate O-ester with O-methylphosphoroamidothioate), thompson Hayward 427-1 (N- $\alpha$ -cyanoisopropyl-O,O-diethyl thiophosphorylacetamide), and monocrotophos proved to be the most effective for controlling the aphids.

IT 35452-92-7  
 RL: BIOL (Biological study)  
 (aphid control by, on cabbage)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 45 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:63456 CAPLUS Full-text

DOCUMENT NUMBER: 74:63456

TITLE: Toxicity of organophosphorus, aryl methylcarbanilate, methylcarbamate, and carboxanilide insecticides against lepidopterans attacking cotton

AUTHOR(S): Wolfenbarger, Dan A.; McGarr, Rex L.; Lowry, William L.

CORPORATE SOURCE: Entomol. Res. Div., Agric. Res. Serv., Brownsville, TX, USA

SOURCE: Journal of Economic Entomology (1970), 63(6), 1943-7  
 CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Of 31 aryl phosphonates, phosphonothioates, or phosphonodithioates applied as conventional sprays, 13 gave at least 50% kill of bollworm, *Heliothis zea*, larvae at less than 1 lb/acre; Bay 25198 (O,O-dimethyl O-[p-

(methylsulfinyl)phenyl] phosphorothioate) (I), Monsanto CP-40273 (O-p-nitrophenyl O-propyl methylphosphonothioate), and CP-40294 (O-p-nitrophenyl O-phenyl methylphosphonothioate) killed 50% of tobacco budworm, *Heliothis virescens*, larvae at 0.5 lb/acre; and Stauffer N-2599 (O-p-chlorophenyl O-ethyl ethylphosphono-thioate), N-2790 (O-ethyl S-phenyl ethylphosphonodithioate), and N-3727 (O-methyl S-phenyl methylphosphonodithioate) killed 80% of tobacco budworms at 1 lb/acre. Monsanto CP-43858 (4',4'',5-trichloro-2-hydroxy-3-biphenylylcarboxanilide) formulated in cottonseed oil and applied at a rate of 1.0 lb/acre as an ultra low volume (<0.5 gal/acre) killed 100% of the tobacco budworm larvae. I was the most effective exptl. organophosphate insecticide against both lepidopterans, whereas UC-30045 (II) was the most active carbanilate insecticide and UC 34096 (III) was the most effective methylcarbamate insecticide evaluated.

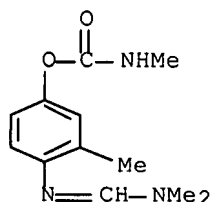
IT 17702-57-7

RL: BIOL (Biological study)

(*Heliothis virescens* and *H. zea* control by, on cotton)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 46 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1971:31043 CAPLUS Full-text

DOCUMENT NUMBER: 74:31043

TITLE: Life history and control of the yellow spider mite on pear in southern Oregon

AUTHOR(S): Westigard, P. H.; Berry, D. W.

CORPORATE SOURCE: Southern Oregon Expt. Sta., Oregon State Univ., Medford, OR, USA

SOURCE: Journal of Economic Entomology (1970), 63(5), 1433-7  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Under laboratory conditions overwintering female *Eotetranychus carpini borealis* laid on an average of 6 eggs compared with 36 for summer females. Both avs. were below those of the two-spotted spider mite, *Tetranychus urticae* [*T. telarius*], which were 38 and 100 eggs for overwintering and summer females, resp. In results from field studies, comparisons of the intratree distribution of the yellow spider mite and the two-spotted spider mite revealed a high degree of overlap, but the former was found more evenly distributed over the entire tree. Resistance to phosphate insecticides by *E. carpini borealis* was reported in 1958, but in 1965 field application of ethion and carbophenothion gave com. control. By 1968 a definite tolerance to ethion was again apparent. In field tests several newer materials were effective including: Chloropropylate, Fundal [N'-(p-chloro-o-tolyl)-N, N-



dimethylformamidine-HCl], formetanate, Galecron, LovozaI, Plictran, and UC 34096. Oil sprays of Volck Supreme or Orchex 79 also were effective.

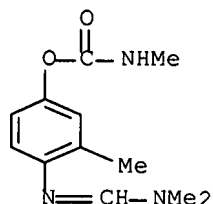
IT 35452-92-7

RL: BIOL (Biological study)

(Eotetranychus carpini borealis control by, in pears)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 47 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:508673 CAPLUS Full-text

DOCUMENT NUMBER: 73:108673

TITLE: Control of the corn stem weevil, *Hyperodes humilis*, as a pest of field and sweet corn

AUTHOR(S): Genung, William G.; Janes, Melvin J.

CORPORATE SOURCE: Everglades Expt. Sta., Univ. of Florida, Gelle Glade, FL, USA

SOURCE: Florida Entomologist (1970), 53(2), 105-8

CODEN: FETMAC; ISSN: 0015-4040

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB The following materials appeared to be especially effective as foliar and soil treatments against corn stem weevil: carbofuran; R-2596, O-Et S-(p-chlorophenyl) ethylphosphonodithioate; UC-34096, 4-[(dimethylamino)methylen]amino)-m-tolyl methylcarbamate; Fundal, N,N-dimethyl-N'-(2-methyl-4-chlorophenyl)formamidine-HCl; Gardona, 2-chloro-1-(2,4,5-trichlorophenyl)vinyl di-Me phosphate; VCS-506, O-(2,5-dichloro-4-bromophenyl)O-MeO-Ph thiophosphonate; Monitor, O,S-di-Me phosphoramidothioate; Lannate, S-Me N-[(methylcarbamoyl)oxy]thioacetimidat e; Ortho Bux, m-(1-ethylpropyl)phenyl methylcarbamate mixture (1:4) with m-(1-methylbutyl)phenyl methylcarbamate; and Dursban, O,O-di-Et O-(3,5,6-trichloro-2-pyridyl) phosphorothioate.

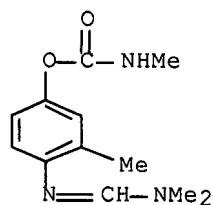
IT 17702-57-7

RL: BIOL (Biological study)

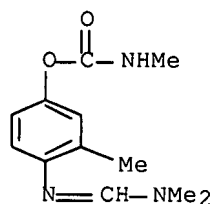
(*Hyperodes humilis* control by, in corn)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 48 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1970:424263 CAPLUS Full-text  
 DOCUMENT NUMBER: 73:24263  
 TITLE: Control of budworms on sweet corn in central and south Florida  
 AUTHOR(S): Greene, Gerald L.; Janes, M. J.  
 CORPORATE SOURCE: Agr. Exp. Sta., Univ. of Florida, Sanford, FL, USA  
 SOURCE: Journal of Economic Entomology (1970), 63(2), 579-82  
 CODEN: JEENAI; ISSN: 0022-0493  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Control of budworms, principally the fall armyworm, *Spodoptera frugiperda*, in the whorls of sweet corn in central and south Florida was investigated during 1967-68. In tests with 96-100% damage in check plots the highest percent of injury-free plants occurred in plots treated with monocrotophos, Gardona, GC-6506, Lannate, Monitor, parathion + methyl parathion, parathion + toxaphene, Thuricide + methyl parathion UC-30045, UC-34096, and VCS-506. Other materials tested were less effective.  
 IT 17702-57-7  
 RL: BIOL (Biological study)  
 (Spodoptera frugiperda control by, on sweet corn)  
 RN 17702-57-7 CAPLUS  
 CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



L21 ANSWER 49 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1970:120428 CAPLUS Full-text  
 DOCUMENT NUMBER: 72:120428  
 TITLE: Codling moth, read-banded leaf roller, apple aphid, European red mite, and two-spotted spider mite control on apple trees  
 AUTHOR(S): Asquith, Dean  
 CORPORATE SOURCE: Fruit Res. Lab., Pennsylvania State Univ.,

SOURCE: Arendtsville, PA, USA  
Journal of Economic Entomology (1970), 63(1), 181-5  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

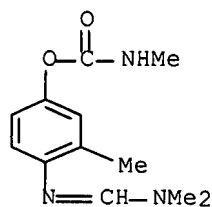
ED Entered STN: 12 May 1984

AB In 1967 and 1968, 30 insecticide treatments were evaluated in orchard expts. for effectiveness on the codling moth, *Laspeyresia pomonella*; the red-banded leaf roller, *Argyrotaenia velutinana*; the European red mite, *Panonychus ulmi*; the twospotted spider mite, *Tetranychus urticae*; and the apple aphid, *Aphis pomi*. Azinphosmethyl, applied at the recommended Pennsylvania dosage of 0.5 lb/acre, served as a standard for comparison. The treatments varied in effectiveness on these pests to a degree which indicates that some of the treatments may warrant further testing to determine if they would be useful in some integrated chemical and biol. control programs in apple orchards.

IT 35452-92-7  
RL: BIOL (Biological study)  
(insect control by, on apples)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 50 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1970:120422 CAPLUS Full-text

DOCUMENT NUMBER: 72:120422

TITLE: Field testing candidate insecticides on beans and alfalfa for control of Mexican bean beetle, potato leafhopper, and plant bugs in New York State

AUTHOR(S): Judge, F. D.; McEwen, Freeman L.; Rinick, H. B., Jr.

CORPORATE SOURCE: Dep. Entomol., New York State Agr. Exp. Sta., Geneva, NY, USA

SOURCE: Journal of Economic Entomology (1970), 63(1), 58-62  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB New and standard insecticides, applied as sprays to the foliage of red kidney beans, were evaluated for control of the Mexican bean beetle, *Epilachna varivestis*, in 1966 and 1967. Of 29 materials tested, only 2 failed to give satisfactory control of the beetle. In 1968 granular formulations of 2 systemic insecticides, phorate (10%) and disulfoton (10%), applied on top of snap beans at planting time gave good control of Mexican bean beetle. Significantly fewer plant bug nymphs (*Lygus lineolaris* and *Poecilocapsus*

lineatus) were taken from treated plots of alfalfa than from control plots when 13 insecticides were applied as sprays in 1966. It was concluded that adult plant bugs and potato leafhoppers, *Empoasca fabae*, which were included in the sampling operation of this experiment, were not reliable indicators of insecticidal efficacy because of their high rate of activity and the ensuing possibility of migration from plot to plot. In 1968, 10-21 insecticides applied as foliar sprays to plots of red kidney beans controlled the potato leafhopper effectively, as judged from nymphal counts taken in treatment and control plots.

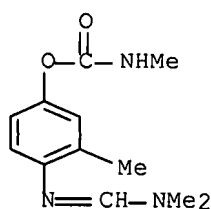
IT 35452-92-7

RL: BIOL (Biological study)

(*Epilachna varivestis* control by, on beans)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 51 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:511853 CAPLUS Full-text

DOCUMENT NUMBER: 71:111853

TITLE: Field evaluation of insecticides for control of the boll weevil, bollworm and tobacco budworm on cotton, Waco area, central Texas, 1968

AUTHOR(S): Cowan, C. B., Jr.; Davis, James Wilmer

CORPORATE SOURCE: Entomol. Res. Div., Agr. Res. Serv., Brownsville, TX, USA

SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 6-8

CODEN: TAEPA4; ISSN: 0099-5142

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB Twenty-one insecticides were included in 4 tests designed principally to evaluate these materials for bollworm and tobacco budworm control in the Waco area. The *Heliothis* infestation, predominantly bollworms in July, changed to tobacco budworms in August. The best boll protection was achieved in the ultra-low-volume experiment with mixts. containing several organophosphorus compds. Insecticides tested were VCS 506, methomyl, EPN, CL 47470, UC 34096, methyl parathion, toxaphene, DDT, GC 6506, CP 47114, Azodrin, and mixts. of these compds. Control of budworm with all treatments was poor. However, there were significantly fewer bollworm-injured squares and bolls in all plots treated. Treatments increased yield over check, and plots treated with Azodrin had a significantly better yield than untreated plots. The bollworm boll injury in treated plots was significantly below that of the check, but

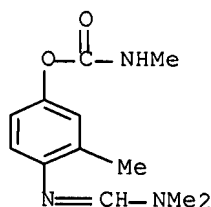
there were more injured bolls in the plots treated with methyl parathion than in the other plots. All treated plots showed an increase in yield over checks, but there were no significant differences among treated plots.

IT 35452-92-7

RL: BIOL (Biological study)  
(insect control by, on cotton)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 52 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:511852 CAPLUS Full-text

DOCUMENT NUMBER: 71:111852

TITLE: Field performance of chemicals for control of tobacco bud-worms, bollworms and carmine spider mites on cotton, College Station, 1968

AUTHOR(S): Hanna, Ralph L.

SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 5-6  
CODEN: TAEPA4; ISSN: 0099-5142

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

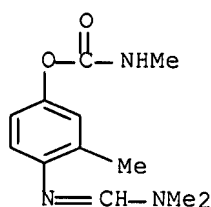
AB Two expts. evaluated 18 insecticides and insecticidal mixts. for Heliothis control in the College Station area where the infestation was predominantly tobacco budworms. Ultra-low-volume applications of methyl parathion at 2.0 lbs./acre afforded more protection for large bolls than did other materials tested except Union Carbide 34096 [4- [[dimethylamino]methylene]amino]-m-tolyl methylcarbamate-HCl]. An experiment evaluating 11 acaricides for the control of organophosphorus-resistant carmine spider mites demonstrated that Azodrin continued to be effective. Galecron, a formamidine compound, showed promise for control of these mites.

IT 35452-92-7

RL: BIOL (Biological study)  
(insect control by, on cotton)

RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[ (methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 53 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:511851 CAPLUS Full-text

DOCUMENT NUMBER: 71:111851

TITLE: Field evaluations of insecticides for control of cotton insects, Brownsville, 1968

AUTHOR(S): McGarr, Rex L.; Wolfenbarger, Dan A.

CORPORATE SOURCE: Entomol. Res. Div., Agr. Res. Serv., Brownsville, TX, USA

SOURCE: Progress Report - Texas Agricultural Experiment Station (1969), No. 2670-2674, 3-4  
CODEN: TAEPA4; ISSN: 0099-5142

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

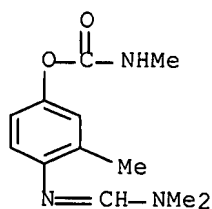
AB Four tests of new insecticides and combinations of insecticides were made in small plots (0.1 acre) to evaluate control of the tobacco budworm, bollworm, pink bollworm, and boll weevil. First consideration was given to control of tobacco budworm as this pest now causes the most serious loss to the cotton crop and is most difficult to control. Treatments were replicated 4 times, and the insecticides were applied as low-volume sprays (5 gals. total liquid/acre) about every 4-6 days. EPN + methyl parathion, EPN, methyl parathion, malathion + methyl parathion, toxaphene + DDT + methyl parathion, and a check were compared exptl. Also compared were Azodrin, GC 6506, DuPont 1642, Carbofuran, VSC 506, UC 34096, and various mixts. None of the 14 insecticides and insecticide mixts. tested gave satisfactory control of moderate to heavy tobacco budworm infestations. High rates of methyl parathion, Azodrin, Azodrin-methyl parathion, EPN-methyl parathion, and parathion-methyl parathion halved the fruit damage and doubled the yield.

IT 35452-92-7

RL: BIOL (Biological study)  
(insect control by, on cotton)

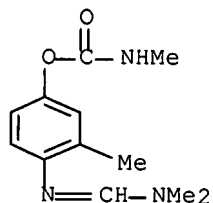
RN 35452-92-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 54 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1969:460087 CAPLUS Full-text  
 DOCUMENT NUMBER: 71:60087  
 TITLE: VPI [Virginia Polytechnic Institute] cockroach research  
 AUTHOR(S): Grayson, James M.  
 CORPORATE SOURCE: Virginia Polytech. Inst., Blacksburg, VA, USA  
 SOURCE: Pest Control (1969), 37(4), 18, 20, 22-4  
 CODEN: PCONAI; ISSN: 0031-6121  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 12 May 1984  
 AB Literature covering the development of strains of cockroaches resistant to DDT, BHC, dieldrin (I), chlordane, and malathion (II) is reviewed. A number of exptl. insecticides were tested against I-resistant, II-resistant, and normal cockroaches. They were applied to panels by the method of Grayson and Townsend (CA 57: 10288i). Excellent kills of II-resistant and normal roaches were obtained after 3 days exposure to 2% CP 47114, B 11163, and C 17018 after aging of deposits up to 60 days. Similarly UC 34096 and E1 400 gave excellent kill of normal and fair to good kill of II-resistant roaches. None were very effective against I-resistant roaches.  
 IT **35452-92-7**, UC 34096  
 RL: BIOL (Biological study)  
 (cockroach control by)  
 RN 35452-92-7 CAPLUS  
 CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L21 ANSWER 55 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1969:10591 CAPLUS Full-text

DOCUMENT NUMBER: 70:10591

TITLE: Control of insects infesting sweet corn ears

AUTHOR(S): Harrison, Floyd P.

CORPORATE SOURCE: Univ. of Maryland, College Park, MD, USA

SOURCE: Journal of Economic Entomology (1968), 61(5), 1463-4

CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 12 May 1984

AB In 1965, treatment with carbaryl (I) at 2 lb./acre and carbofuran (II) at 1 lb./acre resulted in the highest percentage of ears free from corn earworm injury. Gardona (III) (2-chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate) at 1 lb./acre and II and Azodrin (IV) at 0.5 lb./acre were next in effectiveness. GS-13005 (V) (O,O-di-Me phosphorodithioate S-ester with 4-(mercaptomethyl)-2-methoxy-Δ<sup>2</sup>-1,3,4-thiadiazolin-5-one) at 0.75 lb./acre and Thiocron (O,O-di-Me phosphorodithioate S-ester with 2-mercapto-N-(2-methoxyethyl)acetamide) at 1 lb./acre were ineffective. II, I, IV, and V were most effective for control of European corn borers. In 1966, V and O,O-di-Me O-4-nitro-m-tolyl phosphorothioate (Monsanto CP-47114) at 1 lb./acre were effective in controlling earworm injury but not as effective as I at 2, IV at 1 and 2, and III at 2 lb./acre. 2-Methyl-8-quinolyl N-methylcarbamate (VI) (GS-13798) was ineffective. IV was most effective in controlling the dusky sap beetle. While treatment with IV at 2 lb./acre resulted in the highest percentage of ears uninjured by European corn borer, every compound except VI significantly reduced injury. In 1967, IV at 1 lb./acre was the most effective against earworms but was not significantly better than IV at 0.5, III at 1 and 2, I at 2, Dursban at 1, and Me 2-isopropyl-4-(methylcarbamoyloxy)carbanilate (UC-30045) at 2 lb./acre. UC-34096 (4[[[(Dimethylamino)methylene]amino]-m-tolyl methylcarbamate-HCl) was the least effective. All the chems. were effective in reducing dusky sap beetle infestation. IV at 1 lb./acre resulted in the greatest protection against any insect injury although III at 1 and 2 lb./acre and I at 2 lb./acre were not significantly different. None of the materials was phytotoxic.

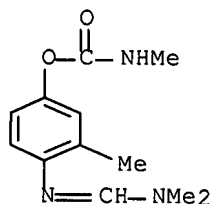
IT 35452-92-7

RL: BIOL (Biological study)

(insect control by, on sweet corn ears)

RN 35452-92-7 CAPLUS

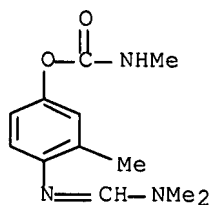
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl



L21 ANSWER 56 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1967:516125 CAPLUS Full-text  
DOCUMENT NUMBER: 67:116125  
TITLE: Efficacy and persistence of active compounds towards  
onion fly larvae which are resistant to organochlorine  
insecticides  
AUTHOR(S): Hennequin, Jean; Lacroix, Albert  
CORPORATE SOURCE: Inst. Natl. Rech. Agron., Versailles, Fr.  
SOURCE: Phytatrie-Phytopharmacie (1966), 15(4), 277-82  
CODEN: PHPHA6; ISSN: 0031-8876  
DOCUMENT TYPE: Journal  
LANGUAGE: French  
ED Entered STN: 12 May 1984  
AB The resistance of onion fly to organochlorine insecticides, particularly  
aldrin, led to a search for agents which would retain their activity for a  
period of 3.5-4 months. Those fulfilling the criteria were: trichloronate,  
chlorfenvinphos, carbophenothion, and diethion. Diazinon was effective for  
2.5-3.5 months. Dimethoate, bromophos, and 3-methyl-4-  
dimethylaminomethyleneiminophenyl N-methylcarbamate had an immediate efficacy,  
but it did not persist. Medathion at a dose level of 1.5 kg./hectare was not  
effective.  
IT 17702-57-7  
RL: BIOL (Biological study)  
(in Hylemya antiqua (organochlorine-resistance) control)  
RN 17702-57-7 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methyamino)carbonyl]oxy]p  
henyl]- (CA INDEX NAME)



L21 ANSWER 57 OF 57 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1964:421231 CAPLUS Full-text  
DOCUMENT NUMBER: 61:21231  
ORIGINAL REFERENCE NO.: 61:3636g-h,3637a  
TITLE: Insecticide and acaricide  
INVENTOR(S): Peissker, Horst; Jaeger, Albert; Steinhausen, Walter;  
Borosehewski, Gerhard  
PATENT ASSIGNEE(S): Schering A.-G.  
SOURCE: 7 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1169194	----	19640430	DE 1962-SC31834	19620802
BE 635767			BE	

FR 1365014

FR

GB 987381

GB

NL 296165

NL

PRIORITY APPLN. INFO.:

DE

19620802

ED Entered STN: 22 Apr 2001

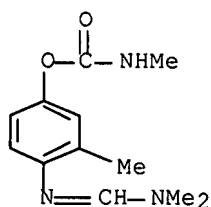
GI For diagram(s), see printed CA Issue.

AB Prepns. of the general formula (I) (R1 is a lower alkyl or cyclohexyl, R2 and R3 a lower alkyl or together with the N atom a ring containing hetero atoms, R4 a H, a lower alkyl, lower alkenyl, or Cl, and R5 a H or Me) were reported to have lasting effect in the control of insects as well as plant parasites. Twenty three derivs. (II) were tested on bean plants (*Phaseolus vulgaris*) infested with *Tetranychus urticae*. The plants were thoroughly wetted and a 100% kill observed on adult mites and maturing larvae, and a 60% to 100% kill on flies (*Musca domestica*) with 4 mg./cm.2 of II on a glass plate, covering a cylinder, containing 20 flies.

IT 17702-57-7, Carbamic acid, methyl-, 4-  
[[[(dimethylamino)methylene]amino]-m-tolyl ester  
(as insecticide)

RN 17702-57-7 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[[[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



=> file caold; d que nos l22  
 FILE 'CAOLD' ENTERED AT 14:07:23 ON 11 MAY 2007  
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FILE COVERS 1907-1966  
 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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L9          2928 SEA FILE=REGISTRY SSS FUL L6
L15         STR
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L18         400 SEA FILE=REGISTRY SUB=L9 SSS FUL ((L15 OR L16))
L20         128 SEA FILE=REGISTRY ABB=ON PLU=ON L18 AND ?IMIDAMIDE
L22         1 SEA FILE=CAOLD ABB=ON PLU=ON L20
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=> d iall hitstr l22 1

L22 ANSWER 1 OF 1 CAOLD COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: CA61:3636g CAOLD  
 TITLE: agent for use against moths and textile insect  
 AUTHOR NAME: El-Hewehi, Zaki; Kipping, W.  
 DOCUMENT TYPE: Patent  
 TITLE: agent for use against moths and textile insects  
 PATENT ASSIGNEE: VEB Farbenfabrik Wolfen  
 DOCUMENT TYPE: Patent  
 TITLE: insecticide and acaricide  
 AUTHOR NAME: Peissker, Horst; Jaeger, A.; Steinhausen, W.; Boroschewski, G.  
 PATENT ASSIGNEE: Schering A.-G.  
 DOCUMENT TYPE: Patent

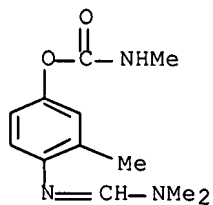
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	FR 1365014			
	GB 987381			
	NL 296165			
INDEX TERM:	4821-26-5	4864-66-8	17702-57-7	22259-30-9
	24303-16-0	88858-35-9	88869-68-5	91646-57-0
	91646-58-1	92327-23-6	92432-23-0	92432-24-1

92703-64-5	92703-71-4	93086-70-5	93149-71-4
93722-50-0	94025-38-4	94297-55-9	94907-74-1
95022-46-1	97617-09-9	98494-30-5	98494-31-6

IT 17702-57-7

RN 17702-57-7 CAOLD

CN Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- (CA INDEX NAME)



=> d his full

(FILE 'HOME' ENTERED AT 10:39:22 ON 11 MAY 2007)

FILE 'CAPLUS' ENTERED AT 10:39:34 ON 11 MAY 2007

E TSENG C/AU

E TSENG CHI/AU

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E US2004-510083/APPS

L2 2 SEA ABB=ON PLU=ON L1 AND AMIDINYLPHENYL/TI  
D SCAN  
D IALL L2 1-2  
SEL RN L2

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L4 STR

FILE 'REGISTRY' ENTERED AT 11:24:47 ON 11 MAY 2007

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D SCAN

L6 STR L4

L7 7 SEA SSS SAM L6  
D SCAN  
D L6

L\*\*\* DEL STR L6, DIS

L\*\*\* DEL 2 S L8 SAMPLE  
D SCAN

DIS  
D L8  
D SCAN L5  
L\*\*\* DEL STR L8  
D L8  
D SCAN L9

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D L4  
D L6  
D L8

FILE 'REGISTRY' ENTERED AT 12:08:11 ON 11 MAY 2007  
D L7  
D SCAN L7  
L8 7 SEA SSS SAM L6  
L9 2928 SEA SSS FUL L6

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FILE 'REGISTRY' ENTERED AT 12:10:54 ON 11 MAY 2007  
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L11 STR L6

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L12 133 SEA ABB=ON PLU=ON L3 AND L9

FILE 'CAPLUS' ENTERED AT 13:07:14 ON 11 MAY 2007  
L13 3 SEA ABB=ON PLU=ON L12  
D SCAN

FILE 'ZREGISTRY' ENTERED AT 13:08:15 ON 11 MAY 2007  
L14 STR L11  
L15 STR L14  
L16 STR L14

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L17 19 SEA SUB=L9 SSS SAM (L15 OR L16)  
D SCAN

FILE 'CAPLUS' ENTERED AT 13:52:08 ON 11 MAY 2007  
L\*\*\* DEL 16 S L17  
L\*\*\* DEL 0 S L18 AND ?IMIDAMIDE

FILE 'REGISTRY' ENTERED AT 13:52:39 ON 11 MAY 2007  
L\*\*\* DEL 2 S L17 AND ?IMIDAMIDE  
D SCAN

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L\*\*\* DEL 0 S L17 AND ?IMIDAMIDE/IN  
L\*\*\* DEL 1793 S L9 AND ?IMIDAMIDE

FILE 'CAPLUS' ENTERED AT 13:56:49 ON 11 MAY 2007

L\*\*\* DEL 2264 S L18

L18 FILE 'REGISTRY' ENTERED AT 13:57:03 ON 11 MAY 2007  
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SAVE L18 ALT083SBFU/A TEMP

L19 FILE 'CAPLUS' ENTERED AT 13:58:29 ON 11 MAY 2007  
275 SEA ABB=ON PLU=ON L18

L20 FILE 'REGISTRY' ENTERED AT 13:58:52 ON 11 MAY 2007  
128 SEA ABB=ON PLU=ON L18 AND ?IMIDAMIDE

L21 FILE 'CAPLUS' ENTERED AT 13:59:34 ON 11 MAY 2007  
57 SEA ABB=ON PLU=ON L20

L22 FILE 'CAOLD' ENTERED AT 14:00:34 ON 11 MAY 2007  
1 SEA ABB=ON PLU=ON L20  
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L24 FILE 'CAPLUS' ENTERED AT 14:02:23 ON 11 MAY 2007  
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L25 38 SEA ABB=ON PLU=ON L1 NOT L24  
D SCAN TI  
L26 26 SEA ABB=ON PLU=ON L1 AND HERBICID?  
L27 29 SEA ABB=ON PLU=ON L24 OR L26

FILE 'CAPLUS' ENTERED AT 14:04:50 ON 11 MAY 2007  
D QUE L27  
D IBIB ED AB L27 1-29

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D STAT QUE L18  
D QUE NOS L20

FILE 'CAPLUS' ENTERED AT 14:06:04 ON 11 MAY 2007  
D STAT QUE NOS L21  
D IBIB ED ABS HITSTR L21 1-57

FILE 'CAOLD' ENTERED AT 14:07:23 ON 11 MAY 2007  
D QUE NOS L22  
D IALL HITSTR L22 1

FILE HOME

FILE CAPLUS

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FILE COVERS 1907 - 11 May 2007 VOL 146 ISS 21  
FILE LAST UPDATED: 10 May 2007 (20070510/ED)

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

DICTIONARY FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

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Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

#### FILE ZREGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

DICTIONARY FILE UPDATES: 10 MAY 2007 HIGHEST RN 934586-26-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

#### FILE CAOLD

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

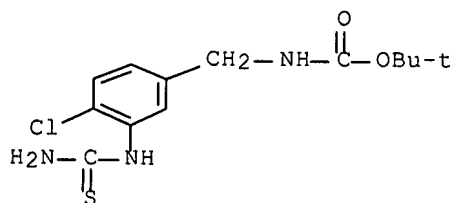
New CAS Information Use Policies, enter HELP USAGETERMS for details.



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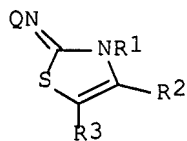
=>

1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

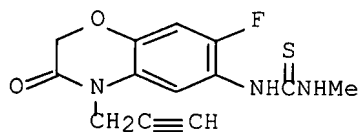


L56 ANSWER 22 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1996:150232 CAPLUS Full-text  
 DOCUMENT NUMBER: 124:202283  
 TITLE: Preparation of iminothiazoline herbicides  
 INVENTOR(S): Takano, Minoru; Enomoto, Masayuki; Saito, Kazuo;  
 Kizawa, Satoru  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 56 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

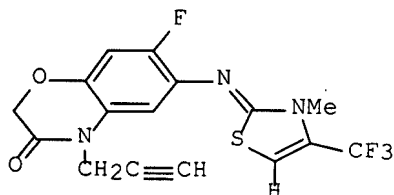
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JP 07324079	A	19951212	JP 1995-57762	19950316
CN 1113242	A	19951213	CN 1995-114854	19950403
<u>US 5521145</u>	A	19960528	US 1995-415569	19950403
BR 9501434	A	19951107	BR 1995-1434	19950404
PRIORITY APPLN. INFO.:			JP 1994-65959	A 19940404
OTHER SOURCE(S):	MARPAT 124:202283			
ED Entered STN:	15 Mar 1996			
GI				



I



II



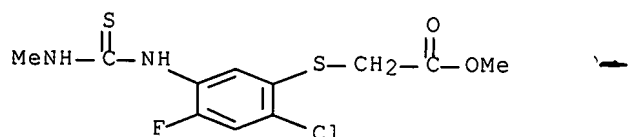
III

AB The title compds. [I; Q = (un)substituted Ph, (un)substituted benzo-fused (un)substituted 5-6-member heterocyclyl; R1 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl; R2 = (halo)alkyl, (un)substituted aryl, formyl, cyano; R3 = hydrogen, (halo)alkyl], useful as selective herbicides, are prepared and I-containing formulations presented. Thus, benzomorpholine derivative II was reacted at reflux in PhMe with F3CCOCH2Br, producing iminothiazoline III, m.p. 119.5°, which demonstrated herbicidal activity.

IT 174262-23-8 174262-35-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of selective iminothiazoline herbicides)

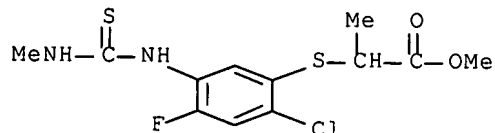
RN 174262-23-8 CAPLUS

CN Acetic acid, [[2-chloro-4-fluoro-5-[[ (methylamino)thioxomethyl]amino]phenyl]thio]-, methyl ester (9CI) (CA INDEX NAME)



RN 174262-35-2 CAPLUS

CN Propanoic acid, 2-[[2-chloro-4-fluoro-5-[[ (methylamino)thioxomethyl]amino]phenyl]thio]-, methyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 23 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:563288 CAPLUS Full-text

DOCUMENT NUMBER: 122:314542

TITLE: Preparation of 2-(benzoylimino)benzothiazoline derivatives as antagonists of fibrinogen receptor and cell adhesion factor

INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Kawashima, Yutaka; Hatayama, Katsuo

PATENT ASSIGNEE(S): Taisho Pharma Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 07010854	A	19950113	JP 1993-150023	19930622
JP 3132241	B2	20010205		
PRIORITY APPLN. INFO.:			JP 1993-150023	19930622

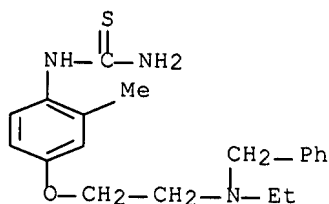
with CF<sub>3</sub>CO<sub>2</sub>H and m-chloroperbenzoic acid in MePh at <15°. for 16 h gave 89 g 2-acetoxy-5-(2-bromoethoxy)-p-cymene. Refluxing 40 g the acetoxy derivative with 17 g N-ethylbenzylamine and Et<sub>3</sub>N in EtOH for 20 h afforded 23 g I (R<sub>1</sub> = AcO, Z = N-benzyl-N-ethylamino, n = 2), which was converted into I.maleate (II). II inhibited specific binding of prazosin or yohimbine to α-adrenergic receptor with IC<sub>50</sub> of 5.4 + 10<sup>-8</sup> and 6.7 + 10<sup>-7</sup> M, resp.

IT 130994-24-0P 130994-25-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of, for treatment of dysuria)

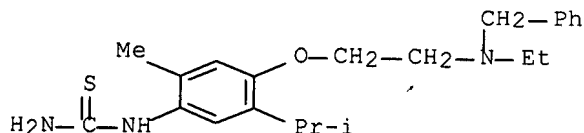
RN 130994-24-0 CAPLUS

CN Thiourea, [4-[2-[ethyl(phenylmethyl)amino]ethoxy]-2-methylphenyl]- (9CI)  
(CA INDEX NAME)



RN 130994-25-1 CAPLUS

CN Thiourea, [4-[2-[ethyl(phenylmethyl)amino]ethoxy]-2-methyl-5-(1-methylethyl)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L56 ANSWER 30 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:492415 CAPLUS Full-text

DOCUMENT NUMBER: 109:92415

TITLE: Arylformamidines with antinociceptive properties

AUTHOR(S): Gall, M.; McCall, J. M.; TenBrink, R. E.;

VonVoigtlander, P. F.; Mohrland, J. S.

CORPORATE SOURCE: CNS Dis. Res. Lab., Upjohn Co., Kalamazoo, MI, 49001, USA

SOURCE: Journal of Medicinal Chemistry (1988), 31(9), 1816-20  
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:92415

ED Entered STN: 17 Sep 1988

AB A series of formamidines, MeNRCH:NAr [R = H, Ar = 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,5-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 3,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2-ClC<sub>6</sub>H<sub>4</sub>, 2,3-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>; R = Me, Ar = 2,6-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,5-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 3,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,6-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>, 2,4-Me<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, 2-(3-methylpyridyl)amine, etc.], structurally related to

clonidine were synthesized starting from the reaction of anilines with HNCONHMe or Me<sub>2</sub>NCH(OMe)<sub>2</sub> and investigated as potential nonopiate analgesics. Several of these compds. showed potent analgesic activity (ED<sub>50</sub> on HCl writhing <1.0 mg/kg) with low potential for hypotensive effects. A qual. description of the structure-activity relationship of this series reveals that the 2,4- and 2,6-dimethylphenyl compds. are more potent analgesics than are the corresponding dichlorophenyl compds.

IT 114886-17-8P 114886-18-9P 114886-19-0P  
114886-20-3P 114886-22-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation and analgesic activity of)

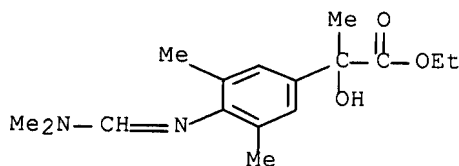
RN 114886-17-8 CAPLUS

CN Benzeneacetic acid, 4-[[[(dimethylamino)methylene]amino]- $\alpha$ -hydroxy- $\alpha$ ,3,5-trimethyl-, ethyl ester, mono(4-methylbenzenesulfonate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 114886-16-7

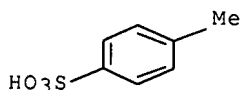
CMF C16 H24 N2 O3



CM 2

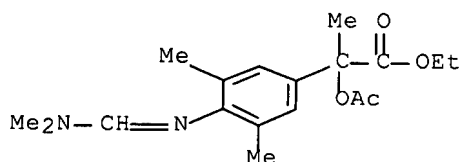
CRN 104-15-4

CMF C7 H8 O3 S



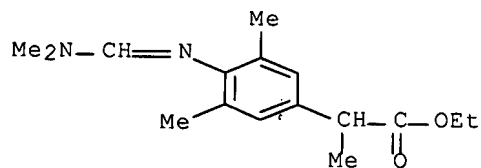
RN 114886-18-9 CAPLUS

CN Benzeneacetic acid,  $\alpha$ -(acetyloxy)-4-[[[(dimethylamino)methylene]amino]- $\alpha$ ,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



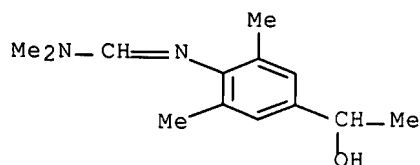
RN 114886-19-0 CAPLUS

CN Benzeneacetic acid, 4-[[[(dimethylamino)methylene]amino]- $\alpha$ ,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



RN 114886-20-3 CAPLUS

CN Methanimidamide, N'-[4-(1-hydroxyethyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



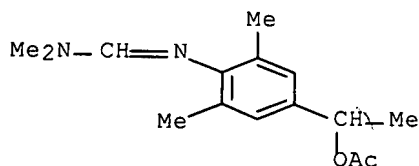
RN 114886-22-5 CAPLUS

CN Methanimidamide, N-[4-[1-(acetyloxy)ethyl]-2,6-dimethylphenyl]-N,N-dimethyl-, mono(4-methylbenzenesulfonate) (9CI) (CA INDEX NAME)

CM 1

CRN 114886-21-4

CMF C15 H22 N2 O2

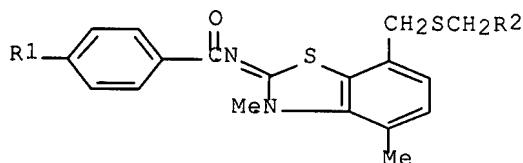


CM 2

CRN 104-15-4

CMF C7 H8 O3 S

OTHER SOURCE(S): MARPAT 122:314542  
 ED Entered STN: 23 May 1995  
 GI



I

AB The title compds. (I; R1 = cyano, thiocarbamoyl, lower alkylthioimidoyl, amidino; R2 = CO2H, lower alkoxy carbonyl), useful for the treatment and prevention of arteriosclerosis and ischemic diseases such as thrombus, brain infarction, and myocardial infarction and as cancer metastasis inhibitors, are prepared (no data). These compds. I inhibit the binding of adhesion proteins such as fibrinogen, fibronectin, and von Willebrand factor to a fibrinogen receptor on a blood platelet and has the inhibitory activity of blood platelet aggregation and adhesion. They inhibit the binding of the above adhesion proteins and adhesion proteins forming a cellular matrix such as fibronectin and collagen and effect the intercellular interaction and the interaction between cells and a cellular matrix. Thus, benzoyl chloride was added to NH4SCN in acetone and reacted at 80° for 15 min followed by adding dropwise 3-amino-4- methylbenzyl alc. over 20 min, stirring the resulting mixture for 45 min, and saponification with 10% aqueous NaOH at 100° to give N-(5-hydroxymethyl-2- methylphenyl)thiourea. The latter compound was brominated with Br in AcOH at 90° for 2 h to give 2-amino-7-bromomethyl-4-methylbenzothiazole which was condensed with Et thioglycolate in the presence of K2CO3 in DMF at room overnight to give 2-amino-7-ethoxycarbonylmethylthiomethyl-4- methylbenzothiazole. This was acylated by 4-cyanobenzoyl chloride in Et3N in CH2Cl2 to give 2-(4-cyanobenzoylamino)-7-ethoxycarbonylmethylthiomethyl- 4-methylbenzothiazole which was treated with NaH in DMF at room temperature and then methylated by MeI to give a title compound I (R1 = cyano, R2 = CO2Et).

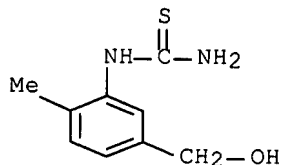
IT 163217-86-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate for preparation of (benzoylimino)benzothiazoline derivs. as antagonists of fibrinogen receptor and cell adhesion factor)

RN 163217-86-5 CAPLUS

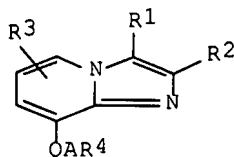
CN Thiourea, [5-(hydroxymethyl)-2-methylphenyl]- (9CI) (CA INDEX NAME)



DOCUMENT NUMBER: 122:105879  
 TITLE: Preparation of imidazo[1,2-a]pyridines as bradykinin antagonists.  
 INVENTOR(S): Oku, Teruo; Kayakiri, Hiroshi; Satoh, Shigeki; Abe, Yoshito; Yuki, Sawada; Tanaka, Hirokazu  
 PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 117 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 596406	A1	19940511	EP 1993-117474	19931028
EP 596406	B1	19981216		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AU 9350242	A	19940512	AU 1993-50242	19931026
AU 686115	B2	19980205		
ZA 9308011	A	19940609	ZA 1993-8011	19931027
IL 107426	A	19970713	IL 1993-107426	19931027
AT 174596	T	19990115	AT 1993-117474	19931028
ES 2125294	T3	19990301	ES 1993-117474	19931028
CA 2102137	A1	19940503	CA 1993-2102137	19931101
CN 1089947	A	19940727	CN 1993-119684	19931101
HU 66302	A2	19941128	HU 1993-3119	19931102
JP 07300478	A	19951114	JP 1993-274643	19931102
JP 2763036	B2	19980611		
US 5574042	A	19961112	US 1995-441786	19950516
US 5750699	A	19980512	US 1996-662198	19960612
PRIORITY APPLN. INFO.:				
			GB 1992-22947	A 19921102
			GB 1993-4249	A 19930303
			US 1993-142967	B2 19931029
			US 1994-235632	B1 19940429
			US 1995-441786	A3 19950516

OTHER SOURCE(S): MARPAT 122:105879  
 ED Entered STN: 04 Feb 1995  
 GI



I

AB Title compds. [I; R1 = halo; R2, R3 = H, alkyl, haloalkyl, acyl, R4 = aryl having suitable substituent(s), heterocyclyl optionally having suitable substituent(s); Q = O or NR11; R11 = H, acyl; and A = alkylene], were prepared. Thus, 8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine was stirred with N-bromosuccinimide in EtOH/dioxane to give 3-bromo-8-(2,6-dichloro-3-nitrobenzyloxy)-2-methylimidazo[1,2-a]pyridine. I at 10<sup>-5</sup> M gave 95-100% inhibition of 3H-bradykinin binding to guinea pig ileum preps.

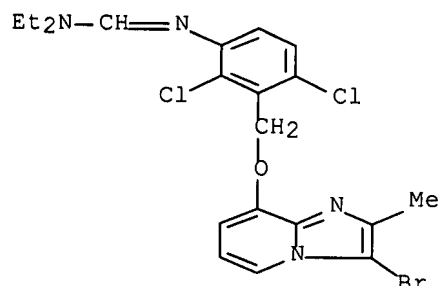
IT 160642-03-5P 160642-04-6P



RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as bradykinin antagonist)

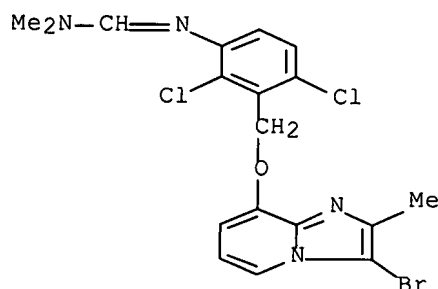
RN 160642-03-5 CAPLUS

CN Methanimidamide, N'-[3-[[[3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl]oxy]methyl]-2,4-dichlorophenyl]-N,N-diethyl- (9CI) (CA INDEX NAME)



RN 160642-04-6 CAPLUS

CN Methanimidamide, N'-[3-[[[3-bromo-2-methylimidazo[1,2-a]pyridin-8-yl]oxy]methyl]-2,4-dichlorophenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L56 ANSWER 25 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:326725 CAPLUS Full-text

DOCUMENT NUMBER: 122:133072

TITLE: An efficient synthesis of chloroethylclonidine

AUTHOR(S): Zhang, Wei-Yi; Bakthavachalam, Venkatesalu; Gao, Yigong; White, William L.; Neumeyer, John L.

CORPORATE SOURCE: Research Biochemicals International, Natick, MA, MA01760, USA

SOURCE: Heterocycles (1994), 39(1), 19-22

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

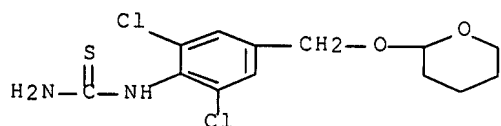
ED Entered STN: 01 Feb 1995

AB An efficient method for the preparation of chloroethylclonidine dihydrochloride starting from 3,5,4-Cl<sub>2</sub>(H<sub>2</sub>N)C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>H is described.

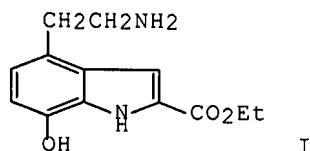
IT 161065-20-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of chloroethylclonidine dihydrochloride)

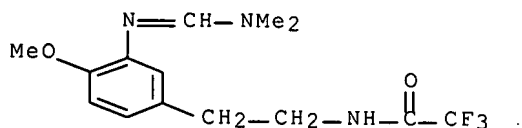
RN 161065-20-9 CAPLUS  
 CN Thiourea, [2,6-dichloro-4-[[ (tetrahydro-2H-pyran-2-yl)oxy]methyl]phenyl]-  
 (9CI) (CA INDEX NAME)



L56 ANSWER 26 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1994:106627 CAPLUS Full-text  
 DOCUMENT NUMBER: 120:106627  
 TITLE: Synthesis and pharmacological evaluation of tyramine  
 congeners containing fused heterocyclic rings  
 AUTHOR(S): Norcini, G.; Allievi, L.; Bertolini, G.; Casagrande,  
 C.; Miragoli, G.; Santangelo, F.; Semeraro, C.  
 CORPORATE SOURCE: Zambon Group, Bresso, 20091, Italy  
 SOURCE: European Journal of Medicinal Chemistry (1993), 28(6),  
 505-11  
 CODEN: EJMCA5; ISSN: 0223-5234  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 120:106627  
 ED Entered STN: 05 Mar 1994  
 GI

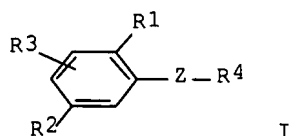


AB A series of tyramine congeners carrying a fused heterocyclic ring were  
 synthesized with the aim of combining the pos. inotropic effect of the cardiac  
 phosphodiesterase III inhibitors with the vasodilatory effect of heterocyclic  
 dopamine receptor agonists. None of the compds. showed the desired  
 combination of properties. 2-Ethoxycarbonyl-4-(2-aminoethyl)-7- hydroxyindole  
 (I) elicited a marked hypotensive effect in spontaneously hypertensive rats.  
 IT **152530-17-1P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and reaction of, with Et cyanoacetate)  
 RN 152530-17-1 CAPLUS  
 CN Acetamide, N-[2-[3-[[ (dimethylamino)methylene]amino]-4-  
 methoxyphenyl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L56 ANSWER 27 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1993:207567 CAPLUS Full-text  
 DOCUMENT NUMBER: 118:207567  
 TITLE: Preparation of phenylthioureas as insecticides and acaricides.  
 INVENTOR(S): Sugizaki, Hiroyasu; Kawada, Shuji; Hotta, Hiroki; Mikage, Tomoji; Kodama, Seiichiro; Konishi, Kenji  
 PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04279562	A	19921005	JP 1991-65346	19910307
PRIORITY APPLN. INFO.:			JP 1991-65346	19910307
OTHER SOURCE(S):			MARPAT 118:207567	
ED Entered STN: 29 May 1993				
GI				

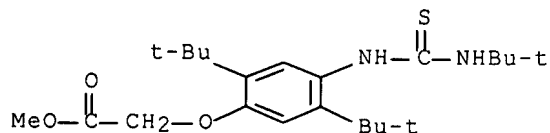


AB Insecticides and acaricides contain phenylthioureas I [R1, R2 = lower alkyl, C3-6 cycloalkyl, lower alkoxy, lower alkylthio, lower alkylsulfenyl, lower alkoxy, lower alkoxy, lower alkoxy; R3 = H, lower alkyl, (halo- or alkoxy carbonyl-substituted) lower alkoxy; R4 = lower alkyl, cycloalkyl; Z = NHCSNH, N:C(SR5)NH; R5 = lower alkyl, allyl] as active ingredients. 2,5-Di-tert-butylphenyl isothiocyanate was treated with tert-butylamine in toluene at 50° for 5 h to give 84.5% N-(2,5-di-tert-butylphenyl)-N'-tert-butylthiourea (II). Cabbage leaves treated with 200 ppm II were lethal to *Plutella maculipennis* larvae.

IT **147345-68-4P**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as insecticide and acaricide)

RN 147345-68-4 CAPLUS

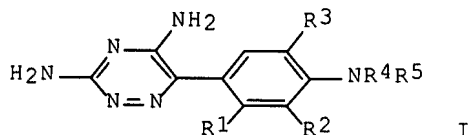
CN Acetic acid, [2,5-bis(1,1-dimethylethyl)-4-[[[(1,1-dimethylethyl)amino]thioxomethyl]amino]phenoxy]-, methyl ester (9CI) (CA INDEX NAME)



L56 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1992:128970 CAPLUS Full-text  
 DOCUMENT NUMBER: 116:128970  
 TITLE: Preparation of 6-aminophenyl-3,5-diamino-1,2,4-triazines as neuroprotective agents  
 INVENTOR(S): Leach, Michael John; Nobbs, Malcolm Stuart  
 PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK  
 SOURCE: Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 459829	A1	19911204	EP 1991-304962	19910531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 9104158	A	19930301	ZA 1991-4158	19910530
CA 2043642	A1	19911202	CA 1991-2043642	19910531
FI 9102622	A	19911202	FI 1991-2622	19910531
AU 9178099	A	19911205	AU 1991-78099	19910531
AU 630811	B2	19921105		
HU 60726	A2	19921028	HU 1991-1827	19910531
JP 06025193	A	19940201	JP 1991-235335	19910531
			GB 1990-12312	A 19900601

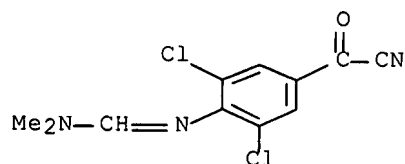
PRIORITY APPLN. INFO.:  
 OTHER SOURCE(S): MARPAT 116:128970  
 ED Entered STN: 03 Apr 1992  
 GI



AB Title compds. (I; 1 of R1-R3 = Cl and the others = H or Cl; R4, R5 = H, alkyl) were prepared Thus, 2,5,3-Cl2(H2N)C6H2CO2H was converted in 3 steps to 2,3,5-Cl3C6H2COCN which was cyclocondensed with H2NC(:NH)NHNH2 and the product nitrated to give, after reduction, I (R1-R3 = Cl, R4 = R5 = H). The latter had IC50 of <10  $\mu$ M against glutamate release from rat brain slices.

IT 139400-99-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, in preparation of neuroprotectants)

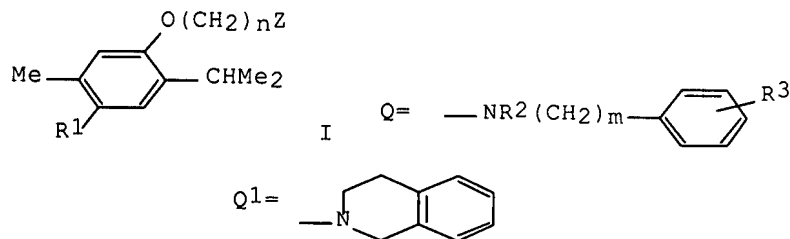
RN 139400-99-0 CAPLUS  
 CN Methanimidamide, N'-[2,6-dichloro-4-(cyanocarbonyl)phenyl]-N,N-dimethyl-  
 (9CI) (CA INDEX NAME)



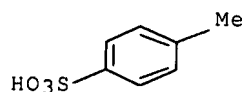
L56 ANSWER 29 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1991:42272 CAPLUS Full-text  
 DOCUMENT NUMBER: 114:42272  
 TITLE: Preparation of (aminoalkoxy)benzenes and  
 pharmaceuticals containing them for treatment of  
 dysuria  
 INVENTOR(S): Kimura, Kiyoshi; Shimomura, Suetaka; Kise, Masahiro;  
 Murase, Masao; Shirochi, Yoshiaki  
 PATENT ASSIGNEE(S): Nippon Shinyaku Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02202857	A	19900810	JP 1989-23460	19890131
JP 08016086	B	19960221		

PRIORITY APPLN. INFO.: JP 1989-23460 19890131  
 OTHER SOURCE(S): CASREACT 114:42272; MARPAT 114:42272  
 ED Entered STN: 09 Feb 1991  
 GI



AB Dysuria-controlling pharmaceuticals, which do not show hypotensive effect, contain title compds. I [R<sup>1</sup> = H, OH, MeO, Ac, AcO, isopropoxycarboxy, (2-imidazolin-2-yl)methoxy, guanidino, thioureido, AcNH, halo; Z = Q, Q<sup>1</sup>; R<sup>2</sup> = alkyl, cycloalkyl, aryl, aromatic heterocyclyl; R<sup>3</sup> = H, alkyl, alkoxy, halo; m = 0-2; n = 2, 3] or their pharmacol. acceptable salts as active ingredients. Treatment of 100 g 2-acetyl-5-(2-bromoethoxy)-p-cymene (preparation given)

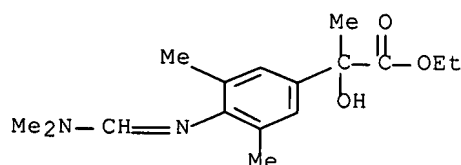


IT 114886-16-7P 114886-26-9P 114886-27-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

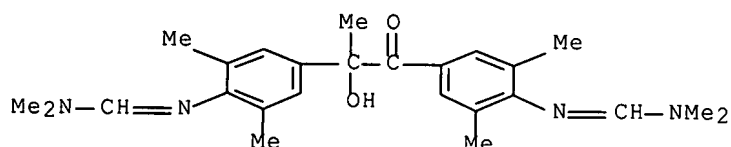
RN 114886-16-7 CAPLUS

CN Benzeneacetic acid, 4-[[[(dimethylamino)methylene]amino]- $\alpha$ -hydroxy- $\alpha$ ,3,5-trimethyl-, ethyl ester (9CI) (CA INDEX NAME)



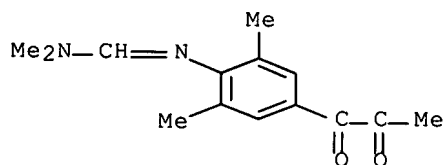
RN 114886-26-9 CAPLUS

CN Methanimidamide, N',N'''-[(1-hydroxy-1-methyl-2-oxo-1,2-ethanediyl)bis(2,6-dimethyl-4,1-phenylene)]bis[N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 114886-27-0 CAPLUS

CN Methanimidamide, N'-[4-(1,2-dioxopropyl)-2,6-dimethylphenyl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L56 ANSWER 31 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:477705 CAPLUS Full-text

DOCUMENT NUMBER: 107:77705

TITLE: Synthesis and evaluation of non-catechol D-1 and D-2 dopamine receptor agonists: benzimidazol-2-one, benzoxazol-2-one, and the highly potent: benzothiazol-2-one 7-ethylamines

AUTHOR(S): Weinstock, Joseph; Gaitanopoulos, Dimitri E.;  
 Stringer, Orum D.; Franz, Robert G.; Hieble, J. Paul;  
 Kinter, Lewis B.; Mann, William A.; Flaim, Kathryn E.;  
 Gessner, George

CORPORATE SOURCE: Dep. Med. Chem., Smith Kline and French Lab.,  
 Swedeland, PA, 19479, USA

SOURCE: Journal of Medicinal Chemistry (1987), 30(7), 1166-76  
 CODEN: JMCMAR; ISSN: 0022-2623

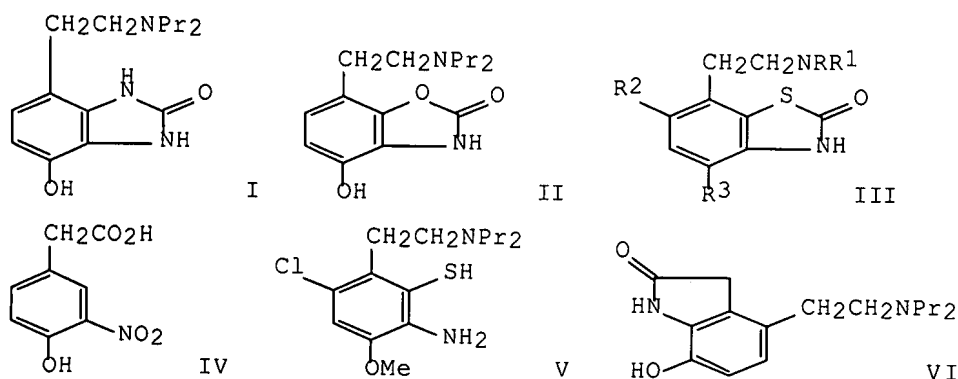
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:77705

ED Entered STN: 05 Sep 1987

GI



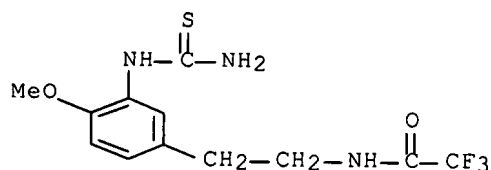
AB Title heterocyclic compds. I, II, and III ( $R = R_1 = \text{Pr}$ ,  $R_2 = \text{H}$ ,  $\text{Cl}$ ,  $R_3 = \text{OH}$ ;  $R = R_1 = \text{Pr}$ ,  $\text{H}$ ,  $R_2 = R_3 = \text{H}$ ;  $R = R_2 = \text{H}$ ,  $R_1 = \text{H}$ ,  $\text{Me}$ ,  $R_3 = \text{OH}$ ) were prepared by standard methods. Thus, III ( $R = R_1 = \text{Pr}$ ,  $R_2 = \text{Cl}$ ,  $R_3 = \text{OH}$ ) was prepared from phenylacetic acid IV in several steps in which the key step was the cyclization of aminobenzenethiol V with  $\text{COCl}_2$  to give III ( $R = R_1 = \text{Pr}$ ,  $R_2 = \text{Cl}$ ,  $R_3 = \text{OMe}$ ). These compds. were evaluated for their affinity and agonist activity at D-1 and D-2 receptors by using in vitro assays. Replacement of the m-hydroxyl in N,N-dipropyldopamine with the thiazol-2-one group resulted in a dramatic increase in D-2 receptor affinity and activity compared to that of N,N-dipropyldopamine or to that of oxindole VI. III ( $R = R_1 = \text{Pr}$ ,  $R_2 = \text{H}$ ,  $R_3 = \text{OH}$ ) is the most potent D-2 receptor agonist reported to date in the field-stimulated rabbit ear artery ( $\text{ED}_{50} = 0.028 \text{ nM}$ ). I and II showed D-2 receptor agonist potency similar to that of VI.

IT 108773-11-1P

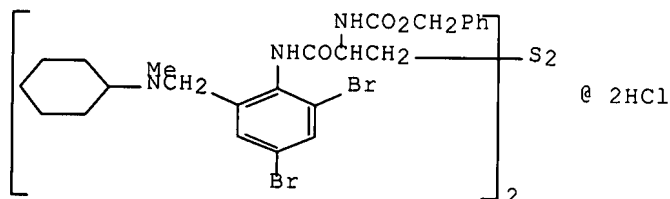
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 108773-11-1 CAPLUS

CN Acetamide, N-[2-[3-[(aminothioxomethyl)amino]-4-methoxyphenyl]ethyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

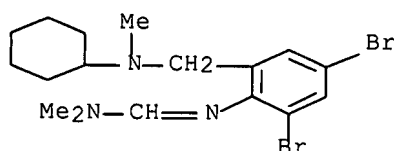


L56 ANSWER 32 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1986:213351 CAPLUS Full-text  
 DOCUMENT NUMBER: 104:213351  
 TITLE: Analytical profile of REC 15-1884-2, a new compound  
 with expectorant activity  
 AUTHOR(S): Guenzi, A.; Cappelletti, R.; Esposito, R.; Polidori,  
 M.; Leonardi, A.  
 CORPORATE SOURCE: Chem. Res. Dep., Recordati S.p.A., Milan, Italy  
 SOURCE: Bollettino Chimico Farmaceutico (1985), 124(11),  
 451-68  
 CODEN: BCFAAI; ISSN: 0006-6648  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 ED Entered STN: 14 Jun 1986  
 GI



AB The IR, UV, NMR and <sup>13</sup>C-NMR and mass spectral properties REC 15-1884-2 (I) [86042-51-5] having expectorant activity are described. The TLC and HPLC gas chromatog. of I are discussed. The synthesis of I, and impurities obtained during the preparation of I and related compds. are described.  
 IT **102203-29-2P**  
 RL: PREP (Preparation)  
 (preparation of)  
 RN 102203-29-2 CAPLUS  
 CN Methanimidamide, N'-[2,4-dibromo-6-[(cyclohexylmethylamino)methyl]phenyl]-N,N-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)





● 2 HCl

L56 ANSWER 33 OF 33 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1984:510916 CAPLUS Full-text  
 DOCUMENT NUMBER: 101:110916  
 TITLE: Herbicidal o-Halobenzoic acid derivatives.  
 INVENTOR(S): Shimano, Shizuo; Kobayashi, Shinichi; Yanagi, Mikio;  
 Yamada, Osamu; Saito, Mikio; Futatsuya, Fumio  
 PATENT ASSIGNEE(S): Nippon Kayaku Co., Ltd. , Japan  
 SOURCE: Eur. Pat. Appl., 46 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 104532	A1	19840404	EP 1983-108992	19830912
EP 104532	B1	19861203		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
JP 59048481	A	19840319	JP 1982-158228	19820913
JP 59065070	A	19840413	JP 1982-175175	19821005
ZA 8306359	A	19840425	ZA 1983-6359	19830826
AU 8318506	A	19840322	AU 1983-18506	19830829
AU 563282	B2	19870702		
US 4531964	A	19850730	US 1983-527493	19830829
IL 69615	A	19860831	IL 1983-69615	19830831
CA 1210766	A1	19860902	CA 1983-436085	19830906
DK 8304072	A	19840314	DK 1983-4072	19830908
BR 8304926	A	19840424	BR 1983-4926	19830912
HU 31927	A2	19840628	HU 1983-3173	19830912
HU 192160	B	19870528		
AT 24004	T	19861215	AT 1983-108992	19830912
PRIORITY APPLN. INFO.:			JP 1982-158228	A 19820913
			JP 1982-175175	A 19821005
			EP 1983-108992	A 19830912

OTHER SOURCE(S): CASREACT 101:110916; MARPAT 101:110916

ED Entered STN: 29 Sep 1984

GI For diagram(s), see printed CA Issue.

AB The title compds. I (R1 = H, halo, R2 = halo, R3 = H, C1-8 alkyl, alkoxyalkyl; X = O, S; Q = Q1, Q2; n = 3, 4), useful as pre- and postemergent herbicides, were prepared. Thus, isocyanate II was added to Et 2-piperidinecarboxylate in C6H6 1 h at 40-50° to give 83.2% III which underwent intramol. cyclocondensation to give 71.9% hydantoin I [R1 = F, R2 = Cl, R3 = Me2CH, Q = Q1 (X = O, n = 4) which, based on herbicidal data is the most preferred compound

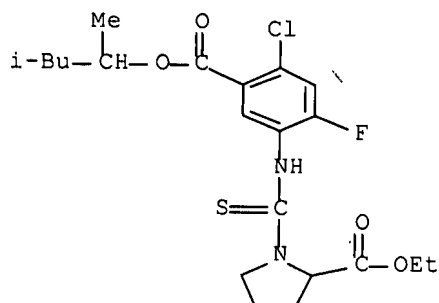
IT 91624-28-1P 91624-30-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
(preparation and herbicidal activity of)

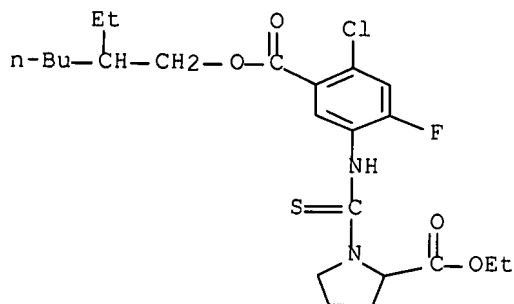
RN 91624-28-1 CAPLUS

CN Proline, 1-[[[4-chloro-5-[(1,3-dimethylbutoxy)carbonyl]-2-fluorophenyl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 91624-30-5 CAPLUS

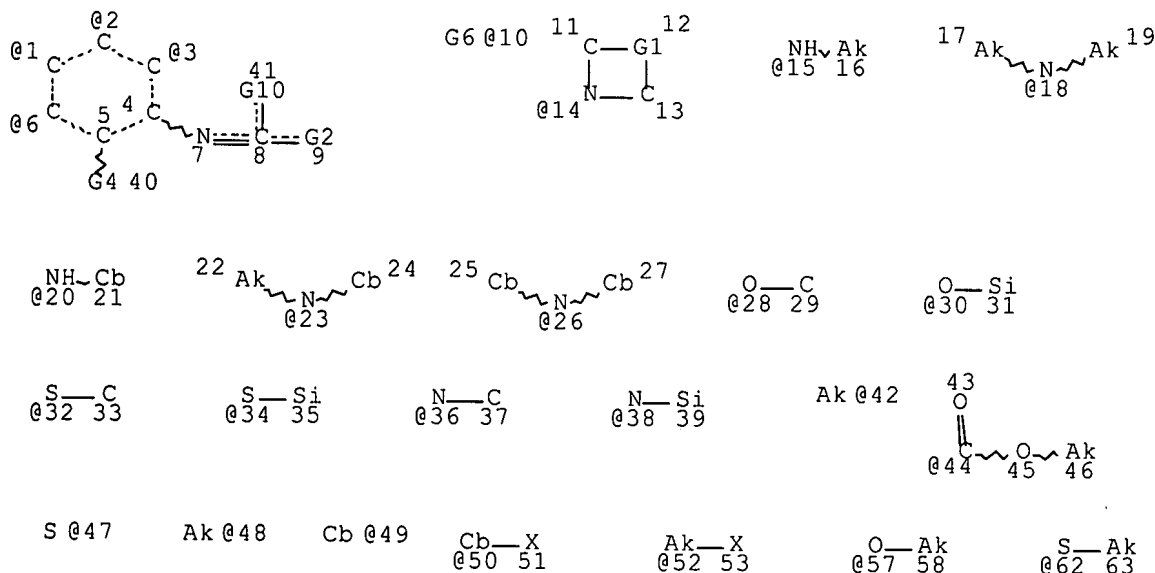
CN Proline, 1-[[[4-chloro-5-[(2-ethylhexyl)oxy]carbonyl]-2-fluorophenyl]amino]thioxomethyl]-, ethyl ester (9CI) (CA INDEX NAME)



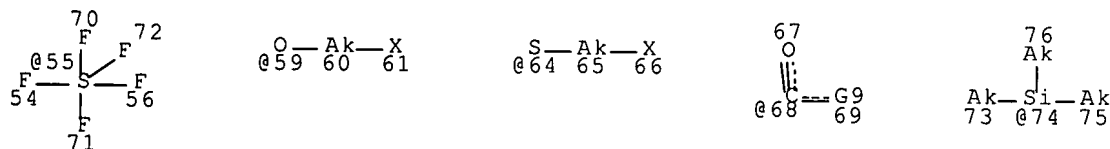
FILE 'HOME' ENTERED AT 16:08:39 ON 09 MAY 2007

## SEARCH HISTORY

=> d stat que l51; d his nofile  
L5 STR



Page 1-A



Page 2-A

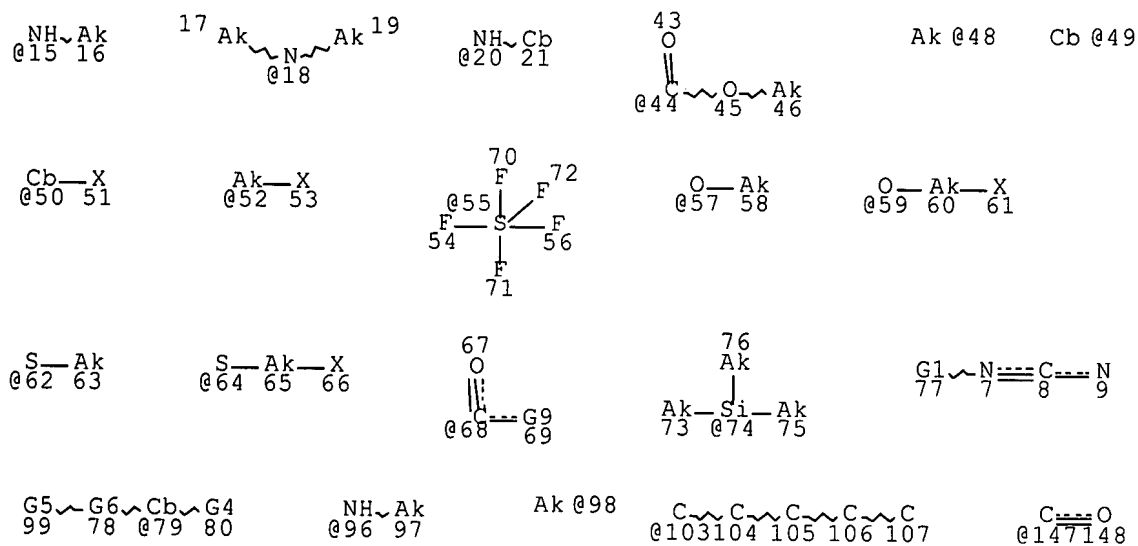
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VAR G4=48/49/52/50/X/CN/55/57/59/62/64/15/18/20/44/68/74  
VAR G6=C/28/30/32/34/36/38/SI  
VAR G9=15/18/H/OH/NH2  
VAR G10=H/47/42/44  
VPA 10-6/1/2/3 U  
NODE ATTRIBUTES:  
CONNECT IS E1 RC AT 16  
CONNECT IS E1 RC AT 17  
CONNECT IS E1 RC AT 19  
CONNECT IS E1 RC AT 22  
CONNECT IS E1 RC AT 42  
CONNECT IS E1 RC AT 46  
CONNECT IS E1 RC AT 47  
CONNECT IS E1 RC AT 48  
CONNECT IS E1 RC AT 49  
CONNECT IS E1 RC AT 58  
CONNECT IS E1 RC AT 63  
CONNECT IS E1 RC AT 73  
CONNECT IS E1 RC AT 75  
CONNECT IS E1 RC AT 76  
DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 16 17 19 21 22 24 25 27 42 46 48 49 50 51 52 53 58  
 60 61 63 65 66 73 75 76  
 GGCAT IS SAT AT 21  
 GGCAT IS SAT AT 24  
 GGCAT IS SAT AT 25  
 GGCAT IS SAT AT 27  
 GGCAT IS SAT AT 49  
 GGCAT IS SAT AT 50  
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 ECOUNT IS M3-X4 C AT 24  
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 ECOUNT IS M3-X4 C AT 27

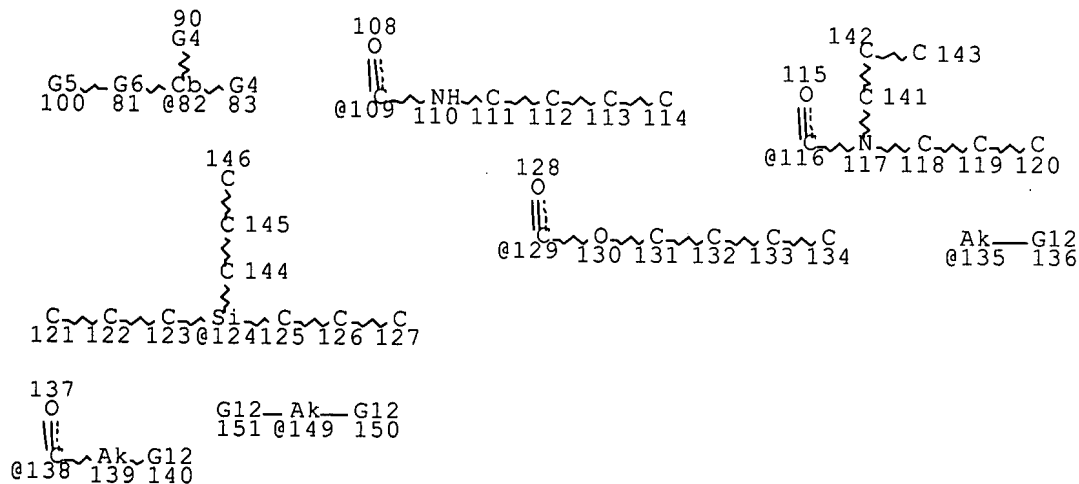
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 NUMBER OF NODES IS 76

STEREO ATTRIBUTES: NONE

L10 4331 SEA FILE=REGISTRY SSS FUL L5  
 L20 STR



Page 1-A



Page 2-A

VAR G1=79/82

VAR G4=48/49/52/50/X/CN/55/57/59/62/64/15/18/20/44/68/74

VAR G5=103/109/116/124/129/135/138/149

REP G6=(0-1) Q

VAR G9=96/18/H/OH/NH2/98

VAR G12=147/N/O/S/SI

NODE ATTRIBUTES:

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CONNECT	IS	E1	RC AT	17
CONNECT	IS	E1	RC AT	19
CONNECT	IS	E1	RC AT	46
CONNECT	IS	E1	RC AT	48
CONNECT	IS	E1	RC AT	49
CONNECT	IS	E1	RC AT	58
CONNECT	IS	E1	RC AT	63
CONNECT	IS	E1	RC AT	73
CONNECT	IS	E1	RC AT	75
CONNECT	IS	E1	RC AT	76
CONNECT	IS	E3	RC AT	79
CONNECT	IS	E4	RC AT	82
CONNECT	IS	E1	RC AT	97
CONNECT	IS	E1	RC AT	98
CONNECT	IS	E2	RC AT	135
DEFAULT MLEVEL IS ATOM				
MLEVEL	IS	CLASS	AT	16 17 19 21 46 48 49 50 51 52 53 58 60 61 63 65 66
				73 75 76 79 82 97 98
GGCAT	IS	LOC	AT	21
GGCAT	IS	LOC	AT	46
GGCAT	IS	LOC	AT	48
GGCAT	IS	LOC	AT	49
GGCAT	IS	LOC	AT	50
GGCAT	IS	LOC	AT	52
GGCAT	IS	MCY	LOC UNS AT	79
GGCAT	IS	MCY	LOC UNS AT	82
DEFAULT ECLEVEL IS LIMITED				
ECOUNT	IS	X4 C	AT	16
ECOUNT	IS	M2-X8 C	AT	17
ECOUNT	IS	M2-X8 C	AT	19
ECOUNT	IS	X4 C	AT	58
ECOUNT	IS	X4 C	AT	60
ECOUNT	IS	X4 C	AT	63
ECOUNT	IS	X4 C	AT	65
ECOUNT	IS	M3-X6 C	AT	73
ECOUNT	IS	M3-X6 C	AT	75
ECOUNT	IS	M3-X6 C	AT	76
ECOUNT	IS	M2-X6 C	AT	97
ECOUNT	IS	M2-X6 C	AT	98

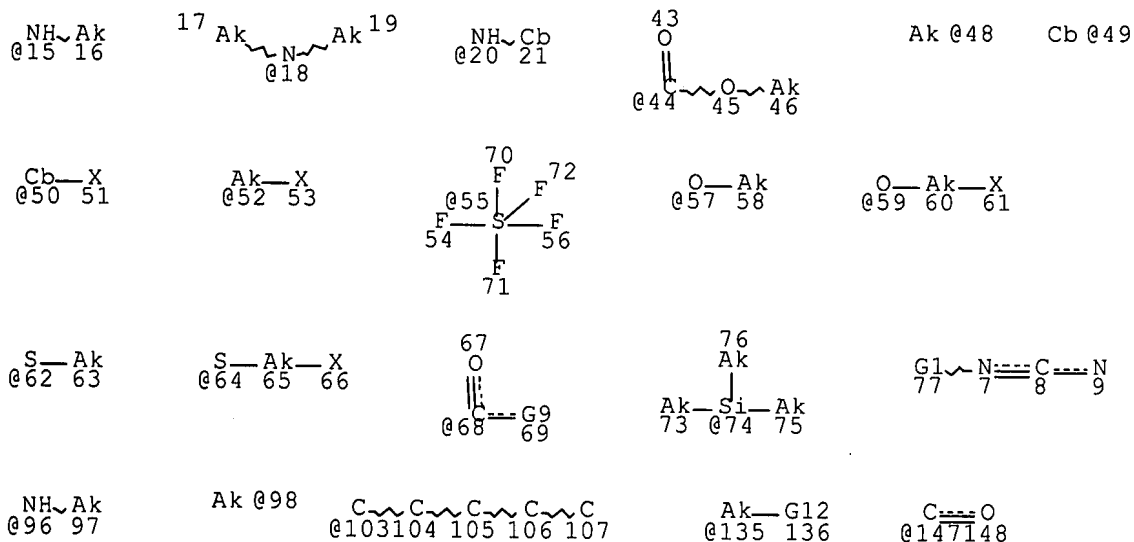
GRAPH ATTRIBUTES:

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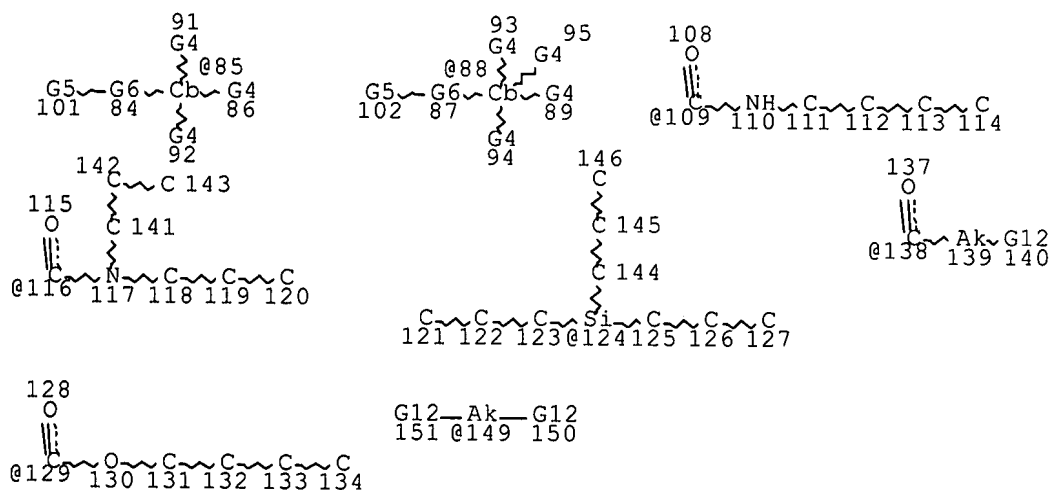
NUMBER OF NODES IS 105

STEREO ATTRIBUTES: NONE

L21 STR



Page 1-A



Page 2-A

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 VAR G5=103/109/116/124/129/135/138/149  
 REP G6=(0-1) Q  
 VAR G9=96/18/H/OH/NH2/98  
 VAR G12=147/N/O/S/SI  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 9  
 CONNECT IS E1 RC AT 16  
 CONNECT IS E1 RC AT 17  
 CONNECT IS E1 RC AT 19  
 CONNECT IS E1 RC AT 46  
 CONNECT IS E1 RC AT 48  
 CONNECT IS E1 RC AT 49  
 CONNECT IS E1 RC AT 58  
 CONNECT IS E1 RC AT 63  
 CONNECT IS E1 RC AT 73

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CONNECT IS E1  RC AT  75
CONNECT IS E1  RC AT  76
CONNECT IS E5  RC AT  85
CONNECT IS E6  RC AT  88
CONNECT IS E1  RC AT  97
CONNECT IS E1  RC AT  98
CONNECT IS E2  RC AT 135
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS AT 16 17 19 21 46 48 49 50 51 52 53 58 60 61 63 65 66
      73 75 76 85 88 97 98
GGCAT   IS LOC  AT  21
GGCAT   IS LOC  AT  46
GGCAT   IS LOC  AT  48
GGCAT   IS LOC  AT  49
GGCAT   IS LOC  AT  50
GGCAT   IS LOC  AT  52
GGCAT   IS MCY  LOC  UNS  AT  85
GGCAT   IS MCY  LOC  UNS  AT  88
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS X4 C  AT  16
ECOUNT  IS M2-X8 C  AT  17
ECOUNT  IS M2-X8 C  AT  19
ECOUNT  IS X4 C  AT  58
ECOUNT  IS X4 C  AT  60
ECOUNT  IS X4 C  AT  63
ECOUNT  IS X4 C  AT  65
ECOUNT  IS M3-X6 C  AT  73
ECOUNT  IS M3-X6 C  AT  75
ECOUNT  IS M3-X6 C  AT  76
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ECOUNT  IS M2-X6 C  AT  98

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## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

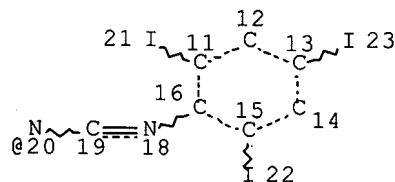
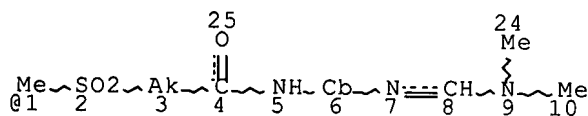
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L28      127 SEA FILE=REGISTRY SUB=L10 SSS FUL L21
L29      367 SEA FILE=REGISTRY ABB=ON  (L26 OR L28)
L47      STR

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G1 17

VAR G1=1/20

## NODE ATTRIBUTES:

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NSPEC   IS RC      AT  20
CONNECT IS E3  RC AT   6
DEFAULT MLEVEL IS ATOM
GGCAT   IS MCY  LOC  UNS  AT   6

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DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E3 C AT 3

GRAPH ATTRIBUTES:  
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 NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE  
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100.0% PROCESSED 367 ITERATIONS 267 ANSWERS  
 SEARCH TIME: 00.00.01

(FILE 'HOME' ENTERED AT 11:10:36 ON 09 MAY 2007)

FILE 'REGISTRY' ENTERED AT 11:10:58 ON 09 MAY 2007

D SAVED  
 ACT PRY083STR/Q

L1

STR

ACT PRY083REG1/A

L2

220 SEA ABB=ON (2344-83-4/BI OR 287942-16-9/BI OR 2917-47-7/BI OR  
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 ACT PRY083REG2/A  
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L4 8 SEA ABB=ON L3 AND NR>1

L5 STR L1

L6 12 SEA SSS SAM L5  
 D SCAN

FILE 'CAPLUS' ENTERED AT 11:23:17 ON 09 MAY 2007  
 L7 6 SEA ABB=ON L6

FILE 'STNGUIDE' ENTERED AT 11:23:30 ON 09 MAY 2007

FILE 'REGISTRY' ENTERED AT 11:24:18 ON 09 MAY 2007

L8 12 SEA SSS SAM L5

L9 866524 SEA SSS FUL L5 EXTEND

L10 4331 SEA SSS FUL L5  
 SAVE TEMP L10 PRY083FULL/A

FILE 'STNGUIDE' ENTERED AT 11:25:40 ON 09 MAY 2007

FILE 'REGISTRY' ENTERED AT 11:31:15 ON 09 MAY 2007

L11 STR

L12 STR L5

SAVE TEMP L12 PRY083STR2/Q

FILE 'STNGUIDE' ENTERED AT 11:39:02 ON 09 MAY 2007

FILE 'REGISTRY' ENTERED AT 11:42:27 ON 09 MAY 2007

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 D SCAN  
 D STAT QUE  
 L14 STR L12  
 SAVE TEMP L14 PRY083STR3/Q  
 D QUE L10  
 L15 STR L14  
 L16 20 SEA SSS SAM L15  
 L17 STR L14  
 L18 0 SEA SSS SAM L17  
 L19 37 SEA SUB=L10 SSS SAM (L15 OR L17)  
 L20 STR L15  
 D QUE  
 L21 STR L17  
 L22 9 SEA SSS SAM L20  
 L23 0 SEA SSS SAM L21  
 L24 6 SEA SUB=L10 SSS SAM L20  
 L25 4331 SEA SUB=L10 SSS FUL L20 EXTEND  
 L26 240 SEA SUB=L10 SSS FUL L20  
 SAVE TEMP L26 PRY083SUB1/A  
 L27 4331 SEA SUB=L10 SSS FUL L21 EXTEND  
 L28 127 SEA SUB=L10 SSS FUL L21  
 SAVE TEMP L28 PRY083SUB2/A  
 L29 367 SEA ABB=ON (L26 OR L28)  
 SAVE TEMP L29 PRY083SUB3/A

FILE 'CAPLUS' ENTERED AT 15:37:24 ON 09 MAY 2007

L30 197 SEA ABB=ON L29  
 L31 236347 SEA ABB=ON ?FUNG?/BI  
 L32 10 SEA ABB=ON L30 AND L31  
 L33 5 SEA ABB=ON L30(L)AGR/RL  
 L34 324332 SEA ABB=ON 5/SC,SX  
 L35 9 SEA ABB=ON L34 AND L30  
 L36 175 SEA ABB=ON L30 AND (PY<2002 OR AY<2002 OR PRY<2002)

FILE 'STNGUIDE' ENTERED AT 15:39:52 ON 09 MAY 2007

FILE 'CAPLUS' ENTERED AT 15:40:54 ON 09 MAY 2007

L37 ANALYZE L36 1- RN HIT : 148 TERMS  
 D 1-20

FILE 'REGISTRY' ENTERED AT 15:42:01 ON 09 MAY 2007

L38 1 SEA ABB=ON 1221-56-3  
 L39 1 SEA ABB=ON 5587-89-3  
 L40 1 SEA ABB=ON 1151-11-7  
 L41 364 SEA ABB=ON L29 NOT (L38 OR L39 OR L40)

FILE 'CAPLUS' ENTERED AT 15:42:23 ON 09 MAY 2007

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 L43 51 SEA ABB=ON L42 AND L36

FILE 'REGISTRY' ENTERED AT 15:42:53 ON 09 MAY 2007

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 D SCAN L39  
 D SCAN L40  
 L44 STR

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 D QUE  
 L47 STR L45  
 L48 13 SEA SSS SAM L47  
 L49 6 SEA SUB=L29 SSS SAM (L5 NOT L47)  
 D SCAN  
 L50 367 SEA SUB=L29 SSS FUL (L5 NOT L47) EXTEND  
 L51 267 SEA SUB=L29 SSS FUL (L5 NOT L47)  
 SAVE TEMP L51 PRY083SUB4/A  
 D QUE NOS

FILE 'CAPLUS' ENTERED AT 16:05:27 ON 09 MAY 2007  
 L52 35 SEA ABB=ON L51  
 D SAVED  
 ACT PRY083CAAU/A  
 -----

L53 1 SEA ABB=ON US2003-510083/AP  
 -----

L54 1522 SEA ABB=ON TSENG C?/AU  
 L55 2 SEA ABB=ON (L52 AND L54) OR L53

FILE 'CAPLUS' ENTERED AT 16:07:18 ON 09 MAY 2007  
 D QUE NOS L55  
 D IBIB ED ABS HITSTR L55 1-2

FILE 'REGISTRY' ENTERED AT 16:07:52 ON 09 MAY 2007  
 D STAT QUE L51

FILE 'CAPLUS' ENTERED AT 16:08:01 ON 09 MAY 2007  
 D QUE NOS L52  
 L56 33 SEA ABB=ON L52 NOT L55  
 D IBIB ED ABS HITSTR 1-33

FILE 'HOME' ENTERED AT 16:08:39 ON 09 MAY 2007  
 D STAT QUE L51

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